ALLIED RADIO

CORPORATION

833 W. JACKSON BLVD.

CHICAGO

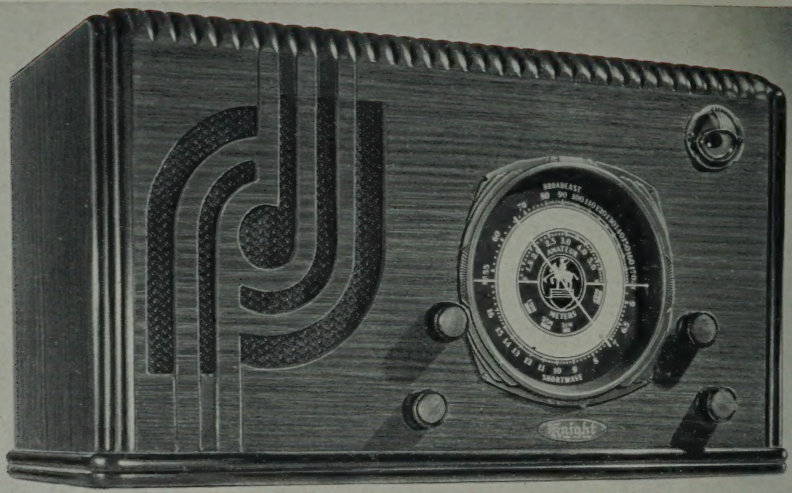
Spring and Summer 1937

WORLD-WIDE SETS • TUBES • ACCESSORIES • REPLACEMENT PARTS
SERVICEMEN SUPPLIES • TESTING EQUIPMENT • LABORATORY
EQUIPMENT • AMATEUR EQUIPMENT • EXPERIMENTERS' PARTS
S. W. APPARATUS • SET-BUILDERS' KITS • PUBLIC ADDRESS
TECHNICAL BOOKS • TOOLS • HARDWARE • ALL STANDARD LINES

FOR COMPLETE INDEX SEE PAGES 135-136

RADIO'S LEADING SUPPLY GUIDE

Knight 6 TUBE 3 BAND A.C. SUPERHET



RCA AND HAZELTINE LICENSED

A9700. The Knight 6-Tube All-Wave A.C. Superhet, complete with Raytheon tubes. Retail Value, $39.95. NET PRICE EACH, $19.45. YOUR PRICE IN LOTS OF 3, EACH

$18.45

ELECTRIC EYE

3 FULL BANDS

GIANT 5" DIAL

TONE CONTROL

3 WATTS OUTPUT

UNI-COIL SYSTEM

WORLD WIDE RANGE

An up-to-the-minute Knight 6-Tube All-Wave A.C. Superhet that everyone can afford. A splendid answer to the real demand for a high grade three band A.C. receiver at a low price. Built to match the highest standards for radio performance and beauty. Designed with features that are truly advantageous and practical. Tunes continuously and powerfully from 17 to 555 meters. Covers foreign and domestic Short Wave between 17 and 52 meters; police, aviation and amateur 'phone between 52 and 175 meters; and long-distance American and Canadian standard Broadcast stations between 175 and 555 meters. Features the Electric Eye (found only in the highest-priced sets) for accurate visual tuning; has the latest attractively colored 6-inch illuminated airplane dial, accurately calibrated for easy tuning on all three bands; continuously variable Tone Control for adjustment of bass or treble response; a heavy-duty 6½" electro-dynamic speaker for flawless tone-handling ability; Uni-Coil System providing a pre-built coil assembly for highest operating efficiency; heavy-duty bar-type rubber-floated tuning condenser for full stability; full 3 watts output; Automatic Volume Control to prevent fading and blasting; latest multi-purpose tubes for extra tube efficiency; separate coils for each band; latest type pie-wound Litz wire I.F. coils; 10 tuned circuits; the most advanced R.C.A. and Hazeltine licensed superhet circuit developing actual 8-tube efficiency and performance.

"ELECTRIC EYE" TUNING

The use of the new Electric Eye in the Knight All-Wave 6 contributes to perfect visual station logging. You tune with the eye as well as the ear. The Electric Eye is actually a cathode ray tube which permits you to see when you are tuned in perfectly. The eye glows with a soft green light. A dark sector, extending downward from the dark eye center, narrows as you tune in your station; when this sector is narrowest it indicates that you have tuned the station in perfectly for best tonal reproduction. It's easy to tune the Knight 6 perfectly; the clear, practical big 6-inch dial plus the Electric Eye, assures you of quick and accurate program logging. You can tune all three bands with the greatest of ease, bringing in program after program with sharp selectivity and enjoyable clarity. With a touch of your finger you can travel the world, enjoying radio at its best.

BEAUTIFUL TONE QUALITY

An outstanding characteristic of Knight All-Wave 6 performance is its true, rich tone quality. The 42 Pentode output stage develops a powerful 3 watts output which is adequately handled by the latest type 6½-inch electro-dynamic speaker. Continuously Variable Tone Control provides for personal accentuation of bass or treble as may be desired. The vitality and realism of the tone developed by the Knight 6 has no equal today even in sets selling at double the price. Every radio listener will get a keen new enjoyment from the wide-range tonal fidelity evident in every program tuned in by the Knight 6. This tonal excellence alone, makes the Knight 6 easily worth the unusually low price at which it is featured.

SPLENDID STYLING

A new laydown type table model cabinet of striking design has been selected for the Knight All-Wave 6. The fluted roll top is a pleasing innovation. The front face is of richly striped walnut in a soft hand-rubbed finish. Measures 19" long, 11" high, 7½" deep.

WORLD-WIDE RANGE

Thrilling world-wide all-wave radio entertainment is yours with the Knight 6. It covers all the popular Short Wave and standard Broadcast bands dependably and effectively. The big 6-inch illuminated airplane dial shows three continuous tuning ranges, attractively colored and accurately calibrated for easy program logging. The upper scale is calibrated in kilocycles for Broadcast band reception; the lower and inside scales are calibrated in megacycles for tuning foreign and domestic Short Wave; important Short Wave channels are marked in meters. Individual coils are used for each band to assure maximum efficiency; the dependable wave band switch allows only the correct coils to be switched in on the band being tuned; the others are completely cut out of the circuit. The uncanny sensitivity of the Knight 6 will please you. Its ultra-selective quality leaves nothing more to be desired.

POWERFUL PERFORMANCE

The very latest multi-purpose tubes are used in the R.C.A. and Hazeltine licensed circuit of the Knight All-Wave 6. 6A7 serves as Det.-Osc.; 6D6 as I.F. Amp.; 75 as triple-purpose 2nd Det., A.V.C. and 1st Audio; 42 as Pentode Power output; 80 as rectifier; 6G5 as Electric Eye. This tube combination assures actual eight tube power and efficiency. 3 watts undistorted output is delivered. Full Automatic Volume Control prevents blasting and maintains constant volume level. The special bar-type cushioned tuning condenser assures accurate tuning. 10 tuned circuits contribute to maximum selectivity. The perfected superhet circuit with its pre-built Uni-Coil System assures strong and clear reception always under perfect control.

6 TUBE ALL-WAVE SET COMPLETE

The Knight 6 Tube All-Wave Superhet is offered in cabinet illustrated complete with Raytheon tubes. For operation on 110 volts, 60 cycles A.C. Shipping weight 19 lbs. Code: WORLD.

A9700. Retail Value, $39.95.
NET PRICE EACH, $19.45.
YOUR PRICE LOTS OF 3, EACH..... **$18.45**

For 110-230 volts, 25-60 cycles, add $2.75.

Copyright 1937 by ALLIED RADIO CORP.

A SMASHING VALUE!

The last word in...

RADIO BEAUTY AND VALUE

2 BANDS : 75 — 550 METERS

Housed in a beautiful bakelite cabinet, this new **Knight 5 Tube AC-DC** receiver is the ideal "companion" set for office, house and traveling use—a truly dependable performer at a record-breaking low price. Tunes two bands: 75 to 175 meters for Short-Wave Police, Amateur and Aircraft signals; and 175 to 550 meters for strong standard Broadcast American and Canadian reception. Will operate perfectly on any 110 Volt line, AC or DC, on 40 to 60 cycles, or may be also used on 220 Volts AC or DC with adapter listed below. Newly designed circuit, licensed by R.C.A. and Hazeltine, uses latest tubes and attains remarkably high sensitivity and selectivity for so compact a receiver. Full five-inch dynamic speaker handles the large Pentode output without distortion, bringing you a truly remarkable quality of tone. Large illuminated Airplane dial is clearly and accurately calibrated for quick, easy tuning.

PLAYS ANYWHERE

Conveniently compact, this receiver can be easily carried and played wherever 110 Volt current is available. The handsome new bakelite cabinet is available in four attractive colors: Black, Red, Ivory and Walnut; will not mar or discolor. Measures 8¾"x6¾"x5". Weighs only 9 lbs. Sturdy chassis is built around an advanced circuit. Employs Litz-wound coils and the latest Raytheon tubes as follows: 1—6D6 as R.F.; 1—6C6 as Det.; 1—43 as Pentode Output; 1—25Z5 as Rectifier; and 1—L49C as Ballast. Each set is equipped with a 20-foot built-in, high-efficiency antenna for extra convenience. Feature this remarkable value as a "leader"; its sensationally low price, its striking appearance, its portability, versatility and fine tone mean more sales and bigger profits for you.

SET COMPLETE

The **Knight 5 Tube AC-DC** in handsome bakelite cabinet complete with Raytheon tubes. For operation on 110 volts, AC or DC, 40-60 cycles. Shpg. wt., 9 lbs.

A9701. Black.	**A9703. Red.**
A9702. Walnut.	**A9704. Ivory.**
List, $19.95.	List, $22.50.
NET EACH $9.45	**NET EACH $10.75**
YOUR PRICE LOTS OF 3, EACH.....$8.95	**YOUR PRICE LOTS OF 3, EACH.....$10.25**

A9145. 220 Volt Adapter. NET.....73c

Knight 5 TUBE AC-DC

The **Knight 5 Tube AC-DC** in black or walnut, complete with Raytheon tubes.

NET PRICE EACH $9.45. YOUR PRICE LOTS OF 3, EACH.....

$8.95

New Bakelite Cabinet

- COVERS 2 FULL BANDS
- WITH BUILT-IN ANTENNA
- ILLUMINATED DIAL
- 5" DYNAMIC SPEAKER
- PENTODE 43 OUTPUT
- A REMARKABLE VALUE

RCA AND HAZELTINE LICENSED

Knight 5 TUBE *Dual Wave* A.C. SUPERHET

- **Tunes 2 Full Bands.** The **Knight 5** tunes from 43 to 150 Meters to bring in Short-Wave Police, Aviation and Amateur 'phone, as well as actual thrilling foreign reception on the popular 49 meter foreign Short-Wave band. The second band covers from 175 to 550 Meters and tunes the upper police channel and the entire range of American and Canadian standard Broadcast stations. These two bands actually give you three band utility because they cover the most important Short-Wave and Broadcast channels. A big Value Feature!
- **Big 5½-Inch Vernier Dial.** It's easy to tune the **Knight 5.** The big, fully illuminated 5½-inch airplane dial is accurately and clearly calibrated. It shows two easy-to-read scales, the upper calibrated in kilocycles for standard Broadcast tuning. All important Short-Wave bands are clearly designated in meters. Double-ended pointers and vernier action assure quick positive station logging. Another big Value Feature!
- **6-Inch Dynamic Speaker.** A full-sized 6-inch Electro-dynamic speaker is used in the **Knight 5.** It faithfully reproduces the fine tonal output of the circuit with flawless fidelity at either full volume or at a whisper. You'll enjoy the life-like re-creation of the whole range of voice and music, the reproduction of each program with stirring realism and vitality. Another exclusive Value Feature!
- **Latest Circuit.** The **Knight 5** assures you of the most recent radio improvements because its circuit is licensed by R.C.A. and Hazeltine and utilizes the newest developments from these world-famous laboratories. Latest type tubes are used throughout as follows: 6A7 as 1st Det.-Osc.; 6D6 as I.F. Amp.; 75 as Diode Det.-A.V.C.-1st Audio; 42 as Pentode; 80 as rectifier. Actually achieves 8 tube efficiency. Includes rubber-floated tuning condenser for greater stability; has 8 tuned circuits for maximum selectivity and automatic volume control to prevent blaring and fading.
- **Beautiful "Low-Boy" Design.** The **Knight Dual Wave 5** is presented in a beautiful laydown type cabinet with pleasing rolled top design. The top and front are one panel bent of selected vertically grained walnut. 15¼"x9"x7".
- **A $30 Value.** The **Knight Dual Wave 5**—Radio's Sensational Hit—is offered in the beautiful cabinet illustrated above, complete with Raytheon tubes.

The **Knight Dual Wave 5** is offered in the beautiful cabinet shown below, complete with Raytheon tubes. For 110 volt, 60 cycle AC operation. Code: CHIME. Shipping weight, 15 lbs.

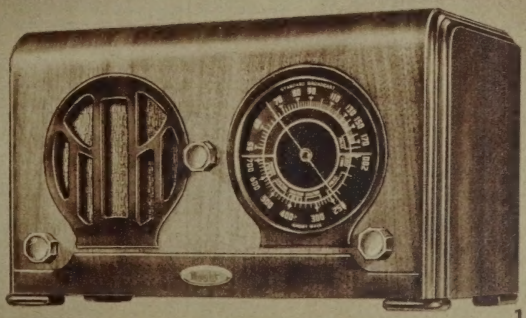
A9775. Retail Value, $30.00. **YOUR PRICE EACH.....**

$13.95

WITH 3 BAND UTILITY

Here's the Radio Sensation of the year—a new Dual-Wave **Knight 5 Tube AC Superhet** that is literally packed with value! No other set at this price has so much built-in quality, such big power and fine tone, such good looks. Check these features for yourself—2 full bands with efficient coverage of all that's important and entertaining on the radio waves—actual 3 band utility!—5½" illuminated Airplane dial!—6-inch dynamic speaker!—latest Superheterodyne circuit!—beautiful "Low-boy" cabinet!—Proof that only ALLIED can give you Radio's Outstanding Value!

RCA AND HAZELTINE LICENSED



RADIO'S LEADING SUPPLY HOUSE—*Serving*

Buy with CONFIDENCE

MAKE YOUR RADIO SHOPPING *Easier and More Profitable*

Service.. **EVERYONE IN RADIO ENDORSES ALLIED SERVICE!**

You get what you want right when you want it. Every one of your orders is handled speedily and carefully by an efficient radio-minded organization keyed to a single purpose—to bring you the best in radio with the quickest service in radio, and at the very lowest prices. Our old customers whole-heartedly acclaim ALLIED's speedy service; our new customers will be sure to endorse it.

Quality. **ALLIED'S HIGH STANDARDS ARE YOUR PROTECTION!**

ALLIED's high standards of quality since the earliest days of radio, have established an enviable tradition. This radio leadership is today, as always, vigorously maintained by enormous clean stocks of everything in radio, identified down to the very smallest item with the finest quality you can buy. This complete catalog lists over 10,000 selected radio items representing the choicest products of the leading manufacturers—your assurance of top-notch quality. Make ALLIED—100% Radio Specialists—your one reliable source of radio supply!

Value... **MORE FOR YOUR MONEY ON EVERY PURCHASE!**

You get more—you save more—you profit more on every purchase! As Radio's Leading Supply House, we have developed the most economical merchandising methods in the field to give you the fullest value for your radio dollar. We pass every saving on to you—that's why our prices are consistently lower. That's why we can never be undersold!

Let this complete ALLIED Catalog be your Buying Guide. For you, ALLIED has set the standard by which radio quality and value must be judged. Play safe—do your radio shopping by ALLIED standards—and join the thousands of Satisfied Customers who consistently buy with confidence from ALLIED.

DON'T SPLIT YOUR ORDERS

We can never be undersold. We consistently meet all competition for identical merchandise. We further protect you by giving you the benefit of the lowest prevailing price at the time you place your order. We can also supply all types of special radio equipment, not shown in this catalog, at the lowest possible prices. Enter your order with full description and deposit and we shall secure the equipment for you. We are able to serve you to greater advantage because we are the leading radio specialists. It pays to do your radio buying 100% from ALLIED.

ALL ORDERS FILLED. We place no restriction on the amount of your order. Whether it is big or small, we give you the benefit of our best service always. It's wise to buy where you know you will consistently be better served.

AN INVITATION TO YOU

When you come to Chicago, be sure to visit our enlarged Radio Headquarters at 833 W. Jackson Blvd., conveniently located on the edge of Chicago's "Loop." See our interesting displays and take advantage of the many service facilities available. Our new Sound and Receiver Demonstration Studios with their incomparable demonstrating facilities are popular features. A visit will repay you with many profit-making and money-saving ideas and helps you can use in your own business.

CHICAGO CUSTOMERS: For convenient, quick counter service, visit our impressive City Salesroom. Plenty of Free parking space always. I-R-S-M members, Engineers, and licensed Amateurs are always on hand to serve you. All Phones: HAYmarket 6800.

Your Order is Quickly Handled...

Filled from Vast Clean Stocks....

Safely Packed....

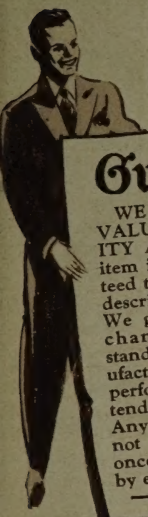
and Quickly Shipped....

To Satisfy You Fully...

DEALERS, SERVICEMEN, AMATEURS, RADIO BUILDERS & LABORATORIES

from ALLIED

WE CARRY HUGE COMPLETE STOCKS ON HAND AT ALL TIMES—WE SERVE YOU BEST ALWAYS



Guarantee

WE GUARANTEE 100% VALUE IN PRICE, QUALITY AND SERVICE. Every item in our catalog is guaranteed to conform exactly to the description and illustration. We guarantee that our merchandise conforms to the standards of the Radio Manufacturers' Association and will perform in the manner intended for such apparatus. Any merchandise that does not so operate, if returned at once will be promptly adjusted by exchange, repair or refund.
—ALLIED RADIO CORP.

CENTRALLY LOCATED

LET ALLIED PERSONAL SERVICE HELP YOU

Here at ALLIED we have built up a huge organization with the idea of "Service" uppermost in our minds. We want you to feel that ALLIED is more than just a business house; write to us about your problems on Radio Servicing, Building, Salesmanship, Short Wave, Sound, etc. Our extensive past experience enables us to answer you promptly, in a friendly, helpful manner. For thousands of Radio Dealers, Servicemen, Amateurs and Engineers, ALLIED'S Personal Service is a valuable aid, day in—day out.

For schools, laboratories and other institutions, we also offer Free Consulting Service. We are prepared to quote low estimates on bids and advise you as to proper equipment to meet your individual requirements.

We are in constant touch with the leading radio manufacturers and can secure special and "hard-to-get" parts with minimum delay. If you require any item not listed in this catalog, send order with description and deposit and we shall secure it for you.

IT'S EASY TO ORDER FROM ALLIED

It's easy to order from ALLIED. Use our convenient order blanks for quick and accurate service. Additional blanks will be furnished with each shipment and on request. Our terms are cash to all. We thus eliminate expensive accounting systems and are thereby enabled to offer our merchandise at lower prices, saving money for you in the long run. We make C.O.D. shipments to old customers. On first orders, please send deposit to establish good faith. It is also advisable, though not necessary, to remit full payment (including transportation charges) for small orders, to avoid extra collection costs. Any excess over actual postage will be refunded in full.

EXPORT ORDERS. We enjoy a large Foreign Trade and cordially invite Foreign correspondence and business. Terms: Payment in New York or Chicago against documents, or 50% deposit with each order, balance sight draft against bill of lading. On orders of $25.00 or less, please send full remittance. All catalog quotations are net F.O.B. Chicago. Foreign Parcel Post Shipments require remittance in full, including postage charges. Special care in packing and handling is accorded all Foreign Orders without extra charge. Competent attention by Export Specialists is always assured.

2% FREIGHT ALLOWANCE SAVES YOU MONEY

Make your order $25.00 or more and you may deduct 2% from the total as a transportation allowance. Whether you desire your shipment to go forward by Parcel Post, Express or Freight, the same money-saving 2% allowance will be made. This applies to shipments made anywhere in the United States on all radio merchandise described in this catalog, except National Co. equipment. (Foreign orders excepted.) It will pay to build up your orders to $25.00 or more to take advantage of this extra saving. Here is still another way ALLIED saves you money on all your Radio needs.

FULL DISCOUNTS. In addition to all trade discounts, a FULL 2% CASH DISCOUNT has already been deducted from every price in this book. Our net catalog prices are the prices you pay. All quotations are F.O.B. Chicago. You receive full discounts even if you prefer part C.O.D. shipment. You save C.O.D. costs, however, by remitting in full. (All quotations in this book include the 1932 Federal Excise Tax. We reserve the right to add any Federal or State Taxes which may be levied after this book is printed. Prices subject to change without notice.)

Outstanding Values in

Smart
BAKELITE CABINET

Knight 5 TUBE AC-DC
Latest 2 Band Model

- DUAL WAVE TUNING
- BEAM POWER TUBE
- BEAUTIFUL NEW DIAL
- PLAYS ANYWHERE
- BUILT-IN AERIAL
- 5" DYNAMIC SPEAKER

Completely new! From its advanced feature-packed circuit to its ultra-modern Bakelite cabinet, this **Knight 5 Tube 2-Band compact AC-DC set** has been designed and built to surpass all previous conceptions of portable radio performance. It is ideal as a personal or "spare" receiver for home, office, or traveling; plays anywhere from 110 Volts AC or DC, 40 to 60 cycles. (May also be operated from 220 volts, AC or DC with adapter listed below.) Tunes 75 to 175 meters, and 175 to 550 meters on two bands for strong reception of short-wave Police and Amateur stations as well as standard Broadcast American and Canadian programs. New circuit features include a 25L6 Beam Power output tube achieving a high output never before possible in AC-DC sets; built-in antenna; novel, illuminated dial, easy-to-tune with accurate knob-pointer. The smart new plastics cabinet is especially attractive and practical; it will not scar or become discolored; it assures excellent acoustical quality; it can be placed anywhere. Cabinets are available in choice of the following colors: brilliant red, glossy black, warm ivory, or smooth walnut. Features pleasing streamline design with rounded corners.

A POWERFUL PERFORMER

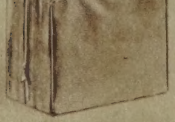
Whether operated from AC or DC 40 or 60 cycle 110 volt current, the **Knight 5** performs equally well. New circuit design includes features never before offered in AC-DC portables. Tubes used are: 1—6D6; 1—6C6; 1—25L6; 1—25Z5; 1—L49C. The 25L6 is a new beam power output tube making possible for the first time in AC-DC sets, full-strength reception on both short-wave and Broadcast bands. Bank-wound Litz wire coils are employed to provide sensitive and selective tuning under all conditions. A full 5 inch electro-dynamic speaker, mounted in front for adequate baffle, handles the full output smoothly, clearly, and enjoyably. Order several of these sets today—use them as demonstrators! They'll sell quickly and profitably.

SET COMPLETE

The **Knight 5 Tube 2 Band Receiver** for 110 volts AC-DC, 40-60 cycles, complete with Raytheon tubes. Shpg. wt., 9 lbs. Choice of colors.

A9717. Red. A9718. Ivory.
List. $25.00. **NET PRICE EACH, $12.25.**
YOUR PRICE LOTS OF 3, EACH **$11.65**

A9715. Black. A9716. Walnut.
List. $22.50. **NET PRICE EACH, $10.95.**
YOUR PRICE LOTS OF 3, EACH **$10.35**



CARRYING CASE

A good-looking convenient carrying case for the **Knight 5 Tube AC-DC,** or for any other compact radio measuring not more than 10x7x6½". Made of attractive Suedette; has practical zipper opening and carrying handle.
A9148.
List. $2.50.
YOUR PRICE **$1.25**

220 VOLT ADAPTER

Permits the operation of the **Knight 5 Tube AC-DC** from 220 volts AC or DC.
A9145. List. $1.50. **NET** ... **73c**

Knight 5 TUBE AC-DC
58-132:175-556 Meters

- TUNES 2 BANDS
- NEW CABINET
- BUILT-IN AERIAL
- LATEST TUBES
- AIRPLANE DIAL
- DYNAMIC SPEAKER

Here is an attractive new **Knight 5 Tube AC-DC** receiver which tunes two bands to offer dependable Short-Wave and standard Broadcast reception. Covers 62.5 to 193 meters for all Police calls and many Amateur and Airplane signals, and 174 to 555 meters for standard Broadcast American and Canadian programs. Quality has not been sacrificed despite our low price. The newest R.C.A. and Hazeltine licensed circuit develops full power together with fine sensitivity and selectivity. Latest features include: illuminated 4" airplane dial; built-in aerial; full-sized 5" dynamic speaker; heavy-duty tuning condenser; Litz-wound coils, etc. Newest tubes develop high efficiency and reserve power; they are used as follows: 1—6D6 as R.F., 1—6C6 as Det., 1—25Z5 as rectifier; 1—43 as pentode power output; 1—L55B as voltage regulator. This fine **ALLIED** value meets any AC-DC competition. Order one as a demonstrator now and build your small set profits.

CARRIES ANYWHERE—PLAYS ANYWHERE

The **Knight Dual-Wave AC-DC 5** is versatile in operation. It can be used effectively on 110 volts, 40 or 60 cycle, AC or DC, and will also operate from 210-230 volts AC or DC with the adapter listed below. The set can be carried from room to room and will play instantly wherever 110 volt current is available. The built-in aerial affords unusual convenience and high signal pick-up. Both Standard Broadcast and Short-Wave programs are faithfully reproduced with full volume and fine clarity. The illuminated airplane dial is calibrated in kilocycles for direct, easy-reading. A special wave-band switch on the front panel assures smooth changing from one band to another. The all-around practicability of this set makes it an excellent "personal" radio; it may be used in bedroom, den, office, sun-porch, etc. **ALLIED'S** low price gives you fine profit-making opportunities.

ATTRACTIVE CABINET

The graceful, compact cabinet illustrated directly above is designed with front panel of pleasing striped walnut, with routing line along top and sides; has square dial-opening and circular speaker grille. The beauty of this cabinet makes it appropriate for any setting: bookcase, table, or desk. Size: 6¼"x12"x8". Powerful reception; excellent tone, and true beauty make the **Knight Dual-Wave 5** an incomparable value.

SET COMPLETE

The **Knight 5 Tube 2 Band AC-DC** receiver for operation from 110 volts AC-DC, 40-60 cycles, complete with 1—6D6, 1—6C6, 1—43, 1—25Z5 genuine R.C.A. tubes, and 1—L55B. Shipping weight, 9 lbs. This fine **Knight** value beats all AC-DC competition—feature it as a leader and cash in on the trade it will bring you.
A9740. Retail Value, $25.00.
Code: DANCE.
NET PRICE EACH, $12.65.
YOUR PRICE IN LOTS OF 3 EACH, **$11.95**

220 VOLT ADAPTER

Enables the **Knight Dual Wave 5 Tube AC-DC** to operate from 220 Volts AC or DC.
A9145. List. $1.50. **NET** **73c**

DEPENDABLE AC-DC RADIOS

Knight 7 TUBE AC-DC
2 Band Superhet

- ELECTRIC EYE
- NEW SUPERHET
- BEAM POWER TUBE
- FULL A.V.C. ACTION
- LARGE AIRPLANE DIAL
- DYNAMIC SPEAKER

New circuit features combined with practical versatility make this new **Knight 7 Tube AC-DC Superhet** a splendid buy. Dual- and triple-purpose tubes offer extra tube efficiency at an unusually low price. Tunes 2 full bands from 75 to 175 and 175 to 550 meters for powerful coverage of Amateur, Police, and Aviation calls onShort Wave, and long-distance American and Canadian standard Broadcast stations. Notice the features! Electric Eye for perfect ease and convenience in tuning; full Automatic Volume Control for smooth, distortion-less output; new 25L6 Beam Power Amplifier tube for extra power; full-vision illuminated airplane dial; large 5" electro-dynamic speaker for life-like reproduction of every program; latest Superhet circuit and rugged chassis for greater stability and performing dependability.

ELECTRIC EYE TUNING

The **Knight AC-DC 7 Tube Superhet** incorporates a 6G5 tube as Electric Eye, which shows you visually when your station is tuned in perfectly; eliminates guess work and off-station tuning; saves time in tuning. Other features include an advanced R.C.A. and Hazeltine licensed Superhet circuit using latest Raytheon multi-purpose tubes: 1—6A7 as Det.-Osc.; 1—6D6 as I. F. Amp.; 1—75 as 2nd Det., A.V.C., 1st Audio; 1—25L6 as Beam Power Amp.; 1—25Z5 Rectifier; 1—L49C Ballast; and 1—6G5 Electric Eye. Litz-wire I. F. coils provide highest sensitivity and selectivity. Built-in aerial adds to convenience and efficient signal pick-up.

AN OUTSTANDING AC-DC VALUE

Only **ALLIED** can bring you values like this. In addition to its new features, the **Knight Superhet 7** is designed for operation wherever electric current is available, and works perfectly from 110 volts AC or DC 40 to 60 cycles (or 220 volts AC or DC with special adapter offered below). The handsome compact cabinet as illustrated features a two-tone front face of select striped walnut with contrasting horizontal bands. Sides are gracefully rolled and of one piece with front face. The cabinet measures 10x7x6½ inches. Dial operates from pointer knob; tunes accurately and quickly.

SET COMPLETE

The new **Knight 7 Tube 2 Band Superhet** for 110 volts AC-DC, 40-60 cycles operation, is offered complete with 1—6A7, 1—6D6, 1—75, 1—25L6, 1—25Z5, 1—L49C, 1—6G5 Raytheon tubes. Shipping weight, 10 lbs. Code: GRADE. An ideal all-around AC-DC performer—one of today's finest radio values.

A9705. Retail Value, $34.50.
NET PRICE EACH, $15.95.
YOUR PRICE, LOTS OF 3, EACH

A Remarkable Value

$15.25

220 VOLT ADAPTER

Permits the operation of the **Knight 7 Tube AC-DC Superhet** from 220 volts AC or DC.
A9145. List, $1.50. **NET**.....**73c**

Knight 5 TUBE AC-DC
2 Bands: 75-550 Meters

- DUAL WAVE RANGE
- BEAM POWER TUBE
- PLAYS ANYWHERE
- BUILT-IN AERIAL
- DYNAMIC SPEAKER
- AIRPLANE DIAL

Here is a new **Knight 5 Tube AC-DC** two band receiver you can operate almost anywhere. It is carefully built, thoroughly dependable, and yet extraordinarily low in price. Gives you powerful reception of standard Broadcast programs plus Police and Amateur calls on two full bands, from 75 to 550 meters. Develops plenty of power from the new Beam Power output stage and reproduces all programs clearly and faithfully. Has new full-view airplane dial accurately calibrated for easy tuning. Features include: full 5" dynamic speaker; built-in antenna, R.C.A. and Hazeltine licensed circuit; compact portable cabinet measuring only 10x7x6½ inches. The **Knight 5** operates from 110 volts AC or DC 40-60 cycles and can be used with adapter listed below on 220 volts AC or DC. Enjoy dependable reception from this versatile inexpensive AC-DC receiver on two full bands. Tune 75 to 175 meters for Short-Wave Police, Amateur, and Aircraft signals, and 175 to 550 meters for strong standard Broadcast American and Canadian reception. The **Knight 5** is an ideal personal radio, distinguished for easy portability and fine performance.

"BEAM POWER" AMPLIFICATION

The new 25L6 Beam Power output tube is used to provide surprisingly strong amplification never before achieved in AC-DC compact sets. The other tubes incorporated are: 1—6D6; 1—6C6; 1—25Z5; 1—L49C—each tube contributing effectively to the distance-reach and reserve power of the **Knight 5.** Litz-wire bank-wound coils, rubber-mounted tuning condenser, and thoroughly shielded circuit components make for sharp selectivity and sensitivity. The **Knight 5** is presented in a handsomely designed two-tone cabinet of striped walnut with contrasting dark band. You can carry this set anywhere—use it anywhere; the **Knight 5** is compact and complete—a wonderful value. It will show you the way to more sales and to bigger radio profits.

SET COMPLETE

The **Knight 5 Tune 2 Band AC-DC** for operation on 110 volts AC-DC, 40-60 cycles, complete with Raytheon tubes. Shipping weight, 9 lbs. Code: HONOR.
A9706. Retail Value, $22.50.
NET PRICE EACH, $10.75.
YOUR PRICE LOTS OF 3, EACH

$10.25

CARRYING CASE

A sturdy and convenient carrying case for the **Knight 5 Tube AC-DC** receiver or for any set measuring not more than 10x7x6½". Made of strong attractive Suedette. Has carrying handles and zipper opening.
A9148. List, $2.50.
YOUR PRICE.....

$1.25

220 VOLT ADAPTER

Enables the **Knight 5 Tube AC-DC** to operate from 220 volts AC or DC.
A9145. List, $1.50.
NET.....**73c**

There's More for Your

RCA AND HAZELTINE LICENSED

Knight 5 TUBE 2 BAND A.C. SUPERHET

• **3 Band Utility.** Here's the year's biggest Radio Value—a new **Dual Wave Knight 5 Tube A.C. Superhet** that's months ahead of the field. Has features of sets costing twice as much. Tunes two full bands—47 to 130 meters for Short Wave police, aviation, and amateur 'phone, in addition to the fascinating 49 meter foreign Short Wave band; and 174-556 meters for upper Police channels and amazingly powerful reception of American and Canadian standard Broadcast stations—actually three-band efficiency! A powerful performer on both bands.

• **New Airplane Dial.** Strikingly beautiful. 4½" in diameter; rectangular in shape; gold-faced and fully illuminated from sides. Upper scale is calibrated in kilocycles for Broadcast; lower in megacycles for Short Wave; popular channels are clearly indicated.

• **4 Watts Output.** Efficiently designed R.C.A. and Hazeltine licensed circuit develops 4 watts output. Latest type tubes are used as follows: 1—6A7 as Mod.-Osc.; 1—6D6 as 1st I.F.; 1—75 as Det.-A.V.C.; 1—41 as power; and 1—80 as Rectifier. Develops actual 7 tube utility and performance!

• **6" Dynamic Speaker.** Heavy-duty 6" electro-dynamic speaker assures highest quality of reproduction of every program. Its smooth, rich tone is a revelation in such a low-priced receiver. The **Knight 5** is outstanding for its ability to pick up and reproduce the faintest signals with startling realism.

• **Tone Control.** Continuously Variable Tone Control is incorporated in the advanced circuit of the **Knight 5**, permitting you to emphasize bass or treble, according to your own preference. Skilful engineering assures the accentuation of either range, without cutting off the other.

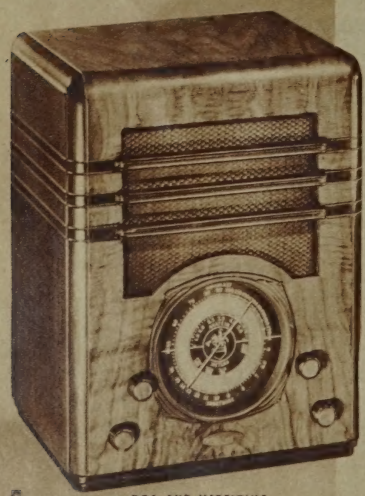
• **Full A.V.C.** Prevents fading and blaring, assuring uniform volume on all stations. Rubber-floated tuning condenser assures sharper tuning eliminating "jamming" and overlapping of stations. Power is uniform and constant, tuning is always a delight.

• **Handsome Cabinet.** Designed in the modern "streamline" style with rounded, sweeping corners. Body is of lustrous walnut finish, with top and bottom of beautifully contrasting darker woods. Measures 15x9x7".

• **Set Complete.** The **Knight 5 Tube 2 Band A.C. Superhet** in table cabinet complete with 6" speaker and R.C.A. tubes for 110 volts, 60 cycles A.C. Shpg. wt., 18 lbs. Code: VOGUE.

A9741. Retail Value, **$34.50.**
YOUR PRICE **$15.65**

Special Universal Transformer permitting operation on 95-260 Volts, 25-60 cycles may be had at $2.25 additional.



RCA AND HAZELTINE LICENSED

Knight 5 TUBE 3 BAND A.C. SUPERHET

• **World-Wide Range.** This new **Knight 5 Tube Superhet** is a powerful, selective, sensitive performer that brings you world-wide radio entertainment: foreign and domestic Short Wave between 17-52 meters; police, aviation and Amateur 'phone between 52-172 meters; and long-distance American and Canadian standard Broadcast programs between 172-555 meters. Every worth-while program at an unbeatably low price!

• **A World of Power.** The **Knight 5** develops full three watts output from its perfected R.C.A. and Hazeltine licensed superhet circuit. Latest Raytheon tubes are employed: 1—6A7 as Det.-Osc.; 1—6A6 as Int. Amp. I.F.; 1—75 as 2nd Det.-A.V.C. and Audio; 1—42 as Power Pentode; and 1—80 as Rectifier. Pentode Power Output Tube (42) increases power and efficiency; triple-purpose 75 tube does the work of three—develops actual 7 tube efficiency!

• **6½" Dynamic Speaker.** Over-sized, heavy-duty speaker faithfully handles the 3 watts output with wide-range tonal fidelity. Built of the highest quality materials, it is perfectly matched to bring out the remarkable tonal qualities of which the **Knight 5** is capable. Reproduces tone flawlessly at any sound level.

• **Tone Control.** Continuously Variable Tone Control provides for the accentuation of either high or low notes, as desired. Makes the **Knight 5** a more "personal" receiver—doubles your radio enjoyment!

• **Full A.V.C.** Extremely important when tuning both Broadcast and Short Wave bands. Maintains a constant volume level; prevents blasting on local stations and fading on S-W signals. Special rubber-cushioned, bar-type tuning condenser assures smoother, more selective tuning.

• **6" Airplane Dial.** Fully illuminated and accurately calibrated on every band, each one being distinctly and attractively colored, for easy logging of stations. Individual coils and special wave-band switch make for maximum tuning efficiency. A sweep of this handsome dial brings you rich, superlative entertainment from the four corners of the world—both overseas and at home. The **Knight 5** strikes a new note in uncanny sensitivity, exceptional selectivity and unparalleled power.

• **Glorious Tone.** The clear, rich tone of the **Knight 5** puts a new meaning into radio listening. Even the most critical radio fan will get a new thrill from its vitality and realism. Never before has such fine tone been available in a radio at such a modest price.

• **New Cabinet.** Gracefully proportioned, the pleasing beauty of this upright table cabinet will harmonize with any interior. The front panel is of carefully matched walnut with a chaste grillework design. Hand-rubbed in a soft, sleek finish. Measures 17"x13"x9½".

• **Set Complete.** The **Knight 5 Tube All-Wave Superhet** is offered in table cabinet illustrated, complete with 6½" speaker and Raytheon tubes. For operation on 110 Volts, 60 cycles, A.C. Shipping weight, 20 lbs.
Code: YOUTH.

A9707.
Retail Value, $37.50.
YOUR PRICE **$18.95**

For operation on any voltage from 110 to 230 Volts, 25 to 60 cycles, add $2.25.

Money in These New Knights!

Here is a typical ALLIED Value! A New 6 Tube All-Wave A.C. Superhet—a real Leader—built to exacting standards—incorporating radio's newest features—offered at an unbelievably low price never before matched in Radio.

Tune the World of radio with the **Knight 6!** Tunes everything from 16-550 meters.

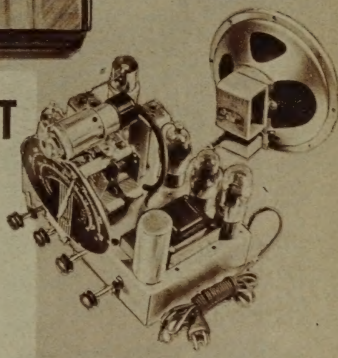
RCA AND HAZELTINE LICENSED

Now, with the new Electric Eye, you can "see" when your station is perfectly tuned in!

There's nothing complicated about All-Wave tuning with the full-sized new oval dial of the **Knight 6!**

TABLE MODEL COMPLETE

$21.85



6 TUBE ALL-WAVE A.C. SUPERHET

TABLE MODEL

The **Knight All-Wave 6** is offered in a splendid new lay-down cabinet as shown above. Has beautiful roll-top effect, with top and front face of one-piece striped walnut. Styled up-to-the-minute. Size: 17½" long, 8½" deep, 9½" high. The **Knight 6** is offered complete in this beautiful table cabinet with 6" dynamic speaker and R.C.A. tubes. For 110 volts, 60 cycle A.C. operation. Shipping weight, 18 lbs. Code: HOUSE.

A9744. Retail Value, $45.00 **YOUR PRICE.....** **$21.85**

CONSOLE MODEL

The **Knight 3 Band 6** is also available in the striking console cabinet illustrated at right. Has front face of beautiful matched stump walnut, with decorative fluted side pilasters. Dimensions: 38" high, 23½" wide, 12" deep. The **Knight 6** is offered complete in this new console, with 8" dynamic speaker and R.C.A. tubes. For 110 Volts, 60 cycle A.C. operation. Shipping wt., 48 lbs. Code: FINAL.

A9745. Retail Value, $67.50 **YOUR PRICE.....** **$32.45**

CHASSIS MODEL

The **Knight 6 A.C. Superhet** is offered in the de luxe chassis form as shown at right above. Radio at its very finest. Measures 10" wide, 8" deep, 8" high. Supplied complete with escutcheon, 8" dynamic speaker and R.C.A. tubes. For operation from 110 Volts, 60 cycles, A.C. Shipping weight, 12 lbs. Code: HABIT.

A9746. Retail Value, $39.95 **YOUR PRICE.....** **$19.25**

• **World-Wide Tuning.** Constantly dependable All-Wave operation is an outstanding feature of this new low-priced **Knight 6 Tube A.C. Superhet.** Its range covers everything on the air in three bands from 16.6 to 550 meters: 16.6 to 51.7 meters for fascinating Short-Wave foreign programs; 53.5 to 175 meters for all Amateur, Airplane, and Police calls; 175 to 550 meters for strong coast-to-coast U. S. and Canadian standard Broadcast reception. The **Knight 6** tunes sharply and reliably to give you performance which is always enjoyable whether programs come in from near or far.

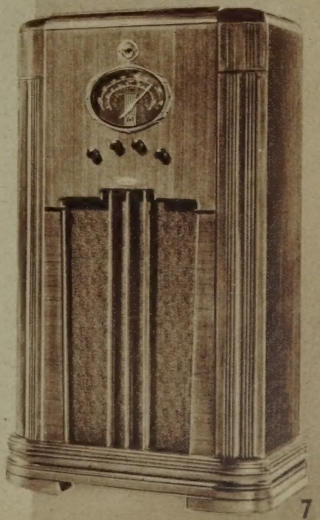
• **Oval Airplane Dial.** Takes all the guesswork out of world-wide tuning. Multi-colored and fully-illuminated; white indicator-pointer stands out clearly. With wave-band indicator. Each band has a separate scale with accurate calibrations in kilocycles on the Broadcast band and in megacycles on the Short-Wave bands.

• **Electric Eye.** Another aid to assure simplified tuning. Glows with a green light; when dark sector is narrowest your station is in tune. The Electric Eye is the modern way for accurate, visual tuning. The **Knight 6** offers it to you at a price you can afford.

• **Powerful Superhet Circuit.** The brand new R.C.A. and Hazeltine licensed Superhet circuit in the **Knight 6** incorporates every desirable feature. Has three-gang rubber-floated tuning condenser, variable Tone Control, full Automatic Volume Control, etc. All vital circuits are fully shielded. Genuine R.C.A. tubes are used as follows: 6A7 as Mod.-Osc.; 6D6 as I.F.; 75 as Det.-A.V.C.; 41 as Audio; 80 as Rectifier; 6E5 as Electric Eye. This advanced, carefully engineered circuit is your assurance of greater stability in operation, longer distance range, and better all-around performance.

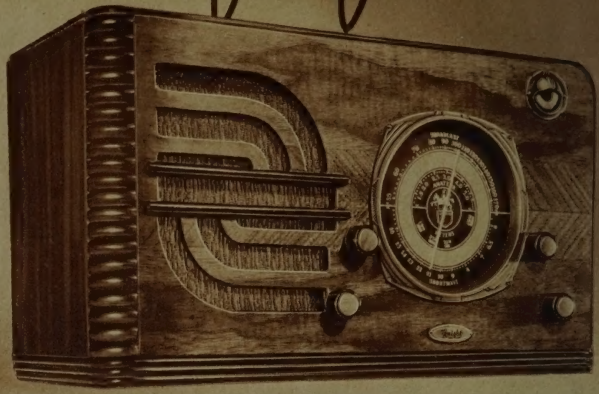
• **Glorious Rich Tone.** A full 3 watts output is developed to drive the new, matched electro-dynamic speaker. Table model has 6" speaker; console and chassis are furnished with 8" speaker. Whether voice or music, foreign or standard Broadcast, each note is rich and full-bodied; every program is reproduced with true fidelity and realism. Variable Tone Control enables you to emphasize bass or treble as you desire. Every radio listener will thrill to the superb tonal quality of the new **Knight 6.**

• **Keen Selectivity and Sensitivity** are provided by careful, painstaking design and assembly. Quality is evident in every component part. Distant stations are picked up easily, sharply selected, and powerfully reproduced. Every spot on the dial is alive—to bring you a world of radio entertainment. The new **Knight 6** is a fine musical instrument priced to give you extra value. There is no greater radio profit-builder in radio today.



NOTE: The Knight 6 Tube All-Wave radios described on this page may be had with special universal transformer for operation from 95 to 260 Volts, 25 to 60 cycles at $2.35 additional. This transformer covers practically all requirements.

Feature for feature—



Knight 8 TUBE AC-DC SUPERHET

- WORKS ON 110 VOLTS AC OR DC
- TUNES THREE FULL BANDS
- LATEST DYNAMIC SPEAKER
- WITH UNI-COIL SYSTEM
- AUTOMATIC VOLUME CONTROL
- VARIABLE TONE CONTROL
- WITH THE ELECTRIC EYE
- NEW BEAM POWER TUBE

The **Knight 8-Tube AC-DC Superhet** combines superb beauty of appearance with extreme versatility, incomparable power, luxurious tone, and keenest selectivity and sensitivity. Sparkling new refinements, developed in the world's greatest radio laboratories, have been incorporated in this receiver of tomorrow, to bring you the finest in AC-DC reception. Quality is evident in every detail, yet the price is so low as to bring this remarkable receiver within the reach of everyone.

The **Knight All-Wave 8-Tube AC-DC Superhet** is presented in a beautiful new lay-down type table cabinet as illustrated above. Has an unusual front face of lovely V-matched walnut with novel beaded pilaster roll-side. Beautifully hand-rubbed to a soft pleasing finish. Size: 19½x11x8". Has large 6" dial. The **Knight All-Wave 8 AC-DC** comes complete with 6½" dynamic speaker and Raytheon tubes. For 110 volts AC or DC, 40 to 60 cycles. Shpg. wt., 18 lbs. Code: GRANT.

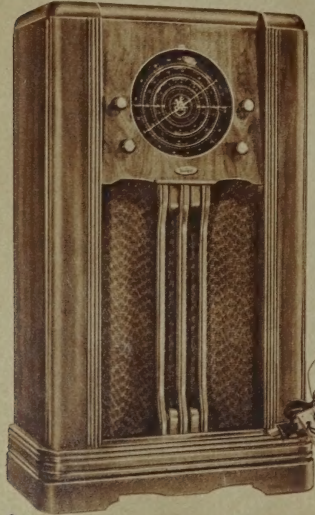
A9710. Retail Value, $47.50.
YOUR PRICE..... **$22.85**

EXPORT MODEL

Same as above, but built to tune 17-52, 172-555 and 750-2100 meters. For 110 volts AC or DC, 40-60 cycles. Code: MAJOR.

A9710E. Retail Value, $50.00.
YOUR PRICE..... **$24.20**

A9145. 220 Volt Adapter. For operating the **Knight 8-Tube** AC-DC from 220 volts AC or DC. **NET**..... **73c**



CONTINUOUS ALL-WAVE

Outstanding radio reception from everywhere is yours with the **Knight All-Wave AC-DC 8.** Three complete, continuous bands tune 17 to 52 and 52 to 172 meters for thrilling foreign and domestic Short Wave programs; and 172 to 555 meters for enjoyable American and Canadian standard Broadcast reception. Every band is chock-full of interesting, worth-while programs—there are no "skips" or "dead" spots.

R.C.A. LICENSED CIRCUIT

The brilliantly engineered superhet circuit of the **Knight AC-DC 8** is fully licensed by R.C.A. and Hazeltine. It uses the newest Raytheon tubes as follows: 1—6A7 as Det.-Osc.; 1—6D6 as I.F.; 1—76 as 2nd Det.-A.V.C.; 1—6K5 as 1st. Audio; 1—25L6 as Beam Power Output; 1—25Z5 as Rectifier; 1—L40C as Ballast; and 1—6G5 as the "Electric" Eye. Beam Power Amplification (25L6) assures greater power; uni-coil system provides greater uniformity and stability; Other features include: A.V.C.; Tone Control; rubber-floated tuning condenser; separate coils on each band, etc.

SPLENDID TONE QUALITY

Full, rich, life-like tone is assured by the 6½" concert speaker in the table model and the oversized 8" speaker in the console. The new 25L6 Beam Power Output Tube is used in a powerful audio circuit to deliver clear, flawless power. The matchless tonal beauty of the **Knight 8** reproduces all programs with dynamic clarity. Here is large power and outstanding beauty of tone never before attainable in AC-DC receivers.

NEW TRI-COLOR DIAL

An added new feature in the **Knight 8 AC-DC** is the attractively-colored, fully-illuminated airplane dial—6" in the table model and 8" in the console. Individual coloring for each wave-band and accurate, easy-to-read calibrations make tuning simple, quick and enjoyable. Important Short Wave Channels are clearly indicated. You can tune the new **Knight 8 AC-DC** effortlessly, knowing it will bring you dependable reception from near and far.

ELECTRIC EYE TUNING

All guesswork in tuning has been eliminated by the unerring "Electric" Eye. You "see" when you are tuned in accurately. No guessing, no exploring, no "off-station" tuning; keep the volume down while tuning until the dark part of the Eye is at its narrowest—then turn up the volume and let the program roll in—surely, perfectly! You can never be "off-tone!" when you tune by the visual, accurate Electric Eye method. Here is additional proof of extra feature value—of refinements added at a low price.

A VERSATILE PERFORMER

The **Knight AC-DC Superhet** is noted for its practical versatility—it will play practically anywhere. Performs equally well on either 110 volts AC or DC, 40 to 60 cycles. For 220 volts AC or DC use the line cord listed below. Simply plug this powerful new receiver into the nearest electric outlet for the finest in AC-DC performance. The **Knight 8-Tube All-Wave AC-DC Superhet** brings you for the first time, superb performance at a new low price.

CONSOLE MODEL

The **Knight 8 AC-DC** is also available in the beautiful console shown at left. Front panel is of richly matched butt walnut with shaped and fluted side pilasters. Size: 37x23x12½". The **Knight 8 AC-DC** is offered complete with 8" dial, 8" dynamic speaker and Raytheon tubes. For operation from 110 volts AC or DC, 40 to 60 cycles. Shpg. wt., 44 lbs. Code: VALUE.

A9711. Retail Value, $72.50.
YOUR PRICE... **$34.85**

EXPORT MODEL

As above, but tunes 17-52, 172-555 and 750-2100 meters. For 110 volts AC or DC, 40-60 cycles. Code: CLEAR.

A9711E. Retail Value, $75.00.
YOUR PRICE..... **$36.20**

CHASSIS MODEL

The **Knight 8-Tube AC-DC** is offered in chassis form as illustrated at left. Full-sized construction; sturdily built of the finest quality materials. Measures 11¼x7x7¾". Comes complete with 8" dial, full 8" dynamic speaker and Raytheon tubes. For operation from 110 volts AC or DC, 40 to 60 cycles. Shpg. wt., 10 lbs. Code: CLICK. A splendid AC-DC chassis.

A9712. Retail Value, $45.00.
YOUR PRICE... **$21.75**

EXPORT MODEL

Chassis model as above, but tunes 17-52, 172-555, 750-2100 meters. For 110 volts AC or DC, 40-60 cycles. Code: BORNE.

A9712E. Retail Value, $47.50.
YOUR PRICE..... **$23.10**

A9145. 220 Volt Adapter for Above Sets. NET 73c

THESE ARE RADIO'S GREATEST VALUES!

ELECTRIC EYE
WORLD – WIDE
ALL-WAVE RANGE
METAL TUBES

A9720. TABLE MODEL WITH RAYTHEON TUBES

$25.95

Knight 7 TUBE A.C. 3 BAND SUPERHET

- WITH THE ELECTRIC EYE
- COVERS 17 TO 555 METERS
- GIANT AIRPLANE DIAL
- AUTOMATIC VOLUME CONTROL
- VARIABLE TONE CONTROL
- WITH UNI-COIL SYSTEM
- FINEST DYNAMIC SPEAKER
- 3-GANG CONDENSER

The **3 Band Knight A.C. 7** is pleasingly presented in a new and distinguished table model cabinet. Has front and sides of beautifully matched walnut in attractive contrasting bands —all of one-piece construction. Grille is handsomely shaped. Has 6" colored dial. Size 20"x 11"x9". Comes complete with 6" dynamic speaker and Raytheon tubes. For 110 Volts, 60 cycles A.C. operation. Shipping weight, 23 lbs. Code: VALOR.

A9720. Retail Value, $54.50.
YOUR PRICE..... **$25.95**

For operation on voltages from 110 to 220 Volts, 25 to 60 cycles, A.C., add $2.75.

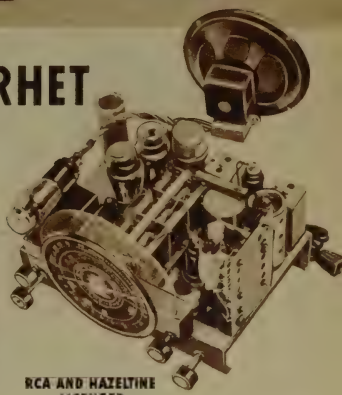
A POWERFUL CIRCUIT

The exceptional power of the **Knight 7 Tube A.C. Superhet** is derived from its advanced Superhet circuit, licensed by R.C.A. and Hazeltine. 7 of the latest octal glass and metal Raytheon tubes are used: 1—6K7 as R.F. (on Broadcast); 1—6A8 as Det.-Osc.; 1—6K7 as I.F.; 1—6Q7 as 2nd Det. A.V.C.-Audio; 1—6F6 as Power Output; 1—5Y3 as Rectifier; and 1—6G5 as "Electric" Eye. Multi-function tubes mean extra-tube efficiency. The new uni-coil system provides greater stability. There's plenty of reserve power in this new **Knight 7!** That's what gives it plenty of distance reach, full rich volume and the most natural tone quality in radio.

RICH TONAL BEAUTY

A significant feature of the new **Knight 7** is its life-like rendition of both voice and music at all volume levels. The special dynamic speaker (6" in the table model and 8" in the console) produces a tone which is consistently brilliant in richness and fidelity. Continuously Variable Tone control permits individual selection of emphasis on either bass or treble. Here's musical beauty at its peak!

This aristocratic deluxe **Knight** receiver is the finest 7 Tube set in Radio. Its generous power, knife-edge selectivity and keen sensitivity make it comparable to many 8 and 9 tube sets. Offers superb coverage on three full bands without a skip: 17 to 52 and 52 to 175 meters for powerful foreign and domestic Short-Wave programs, including Police, Amateur and Aircraft signals; and 175 to 555 for long distance American and Canadian standard Broadcast reception. Beautiful Airplane dial (6" in table model and 8" in the console) is four-colored, fully illuminated and clearly calibrated. The new Electric Eye is incorporated for precise visual program adjustment. Tuning the **Knight 7** is easy, accurate—effortless!



RCA AND HAZELTINE LICENSED

PACKED WITH FEATURES

The **Knight 7** is packed with new, advantageous features: Three full wave bands to cover everything broadcast; beautiful, easy-to-read airplane dial; oversized speaker for richer tone; Electric Eye for quick, accurate noise-free tuning; Automatic Volume Control for noise-free operation and uniformity in volume; Tone Control for personal accentuation of tone; multi-function tubes for extra-performance; 3 gang bar-type rubber-floated condenser for smoother, sharper tuning; R.F. on Broadcast Band; Litz-wound 2 pi I.F. transformers; Uni-Coil System for real stability—features making for greater, more complete radio enjoyment!

CONSOLE MODEL

The **Knight 7 Tube All-Wave Superhet** is available also in a newly styled console cabinet. Has magnificent graining, with front face of select butt walnut and side pilaster of striped walnut. With giant 8" dial. Measures 37"x20"x10". The **Knight 7** comes complete in console with 8" dynamic speaker and Raytheon tubes. For 110 Volts, 60 cycles A.C. operation. Shpg. wt., 48 lbs. Code: MEDAL.

A9721. Retail Value, $77.50.
YOUR PRICE..... **$37.85**

For operation on voltages from 110 to 230 Volts, 25 to 60 cycles A.C., add $2.75.

CHASSIS MODEL COMPLETE

The **Knight 3 Band 7 Tube A.C. Superhet** is offered in deluxe chassis form—a splendid up-to-the-minute replacement for obsolete receivers. Has all features described above, including Electric Eye; 3 Band Range; Giant Airplane Dial; Automatic Volume Control; Tone Control; Uni-Coil System, 3 Gang Condenser; latest octal glass and metal tubes, etc. Size: 11¼"x9"x7¾". This chassis is supplied complete with 8" dial, 8" dynamic speaker and Raytheon tubes. Shpg. wt., 13 lbs. Code: IDEAL.

A9722. Retail Value, $52.50.
YOUR PRICE..... **$24.85**

For operation on voltages from 110 to 230 Volts, 25 to 60 cycles A.C., add $2.75.

Get Save Profit MORE

Guarantee

Any KNIGHT Radio that does not satisfy completely, if returned within 15 days after purchase, will be promptly adjusted by exchange, repair or full refund, less transportation charges. Furthermore, every KNIGHT Radio is also covered by the Radio Manufacturers' Association Guarantee against defects in materials or workmanship over a period of three months from date of purchase.

—ALLIED RADIO CORP.

The new 1937 KNIGHT Radios offer you unparalleled money-saving and profit-making opportunities. You get more for your money in brilliant performance, finer tone, greater beauty and new exclusive features. Every KNIGHT Radio is built of the finest materials by expert craftsmen. Every KNIGHT Radio is fully covered by ALLIED's liberal money-back guarantee. Study the descriptions of the new KNIGHT radios in the pages of this catalog—compare these sets point-by-point, feature-for-feature, with any comparable set on the market, no matter at what price—and you'll agree with us that these new KNIGHT Radios bring you the greatest values in radio history. No expense has been spared to make the new 1937 KNIGHT Radios the finest we have ever offered—their built-in quality is apparent at a glance. Components have been carefully selected, matched, and pre-tested for durability and maximum performance. There's no secret about the phenomenal sales of KNIGHT Radios. Performance is the key—reliable, efficient, brilliant performance that has made thousands of satisfied customers.

READ WHAT THEY SAY ABOUT *Knight* RADIOS

"Customer Well Pleased"

"I received the 6 volt 7 tube (KNIGHT) Radio in good condition. Customer well pleased. States that it is the best radio that he has ever heard . . . can give you several more orders . . ."—J. F. Wheat, Blytheville, Ark.

"More Orders From Me"

"I certainly like that last (KNIGHT) radio ordered from you and you can look for more orders from me."—G. L. Kenison, Mt. Home, Utah.

"Excellent Results"

"The 7-Tube AC-DC Console KNIGHT Radio ordered from you for my customer . . . has been giving excellent results and I am very glad to be able to say that I have one more satisfied customer."—R. K. Bosley, Radiotrician, Johnstown, Pa.

"Gets Distance"

"I like my Knight Radio fine. Have located about sixty stations including Hawaii. It is plainer than the other new ones I have heard."—F. Marlowe, Atwood, Kansas.

"Demonstrations Gives Orders"

"Have recently purchased one of your KNIGHT) sets and am greatly satisfied with its performance. Its demonstrations have given me many orders."—H. G. Sherbondy, Ruffsdale, Pa

"Best in Neighborhood"

"The (KNIGHT) battery set I sent for . . . proved O.K. Customer thinks best in neighborhood."—M. B. Miller, Portland, Ind.

"A-No. 1 Radios"

"The two receivers that I have purchased from you have certainly been A-No. 1 Radios."—W. B. Marshall, New Cumberland, W. Va.

"Knight Makes a Hit With All"

". . . the KNIGHT 5-Tube Battery set . . . has reached me in perfect condition, and my customer is well pleased with both cabinet design and performance of the set. This was my first order for a KNIGHT . . . and it seemed to make such a hit with all who saw it that I'm hoping to sell several more."—R. Price, Fork Union, Va.

"Exceeded Expectations"

"The (KNIGHT) radio I have received from you recently certainly exceeded the buyer's expectations and mine, too."—W. Horine, Ellwood, Ind.

"Utmost in Satisfaction"

". . . I have ordered several of your (KNIGHT) sets . . . every set has given the utmost in satisfaction. I marvel that you can sell such a fine radio at so low a price."—R. J. Yunker, Howe, Ind.

"Customer Satisfied"

"Received the (KNIGHT) set . . . in excellent condition, and can say that I was very much pleased. My customer also was very much surprised and satisfied over the performance it gave . . . I have, in the near future, a sale for the . . . metal tube radio. . ."—M. J. Johnson, San Francisco, Cal.

"Best Buy In . . . Radio"

"Enclosed . . . find an order for a (KNIGHT) Radio. The other two . . . I ordered are all sold and giving real satisfaction. They are the best buy in a radio . . . I have ever found . . . I will make several more sales . . ."—R. Babbitt, Long Lane, Mo.

"A Wonderful Buy"

". . . received your . . . 11 Tube chassis and think it is a wonderful buy, so I am sending you another order."—Kosky's Radio Lab., Cleveland, Ohio.

Knight RADIOS ARE MONTHS AHEAD

The latest developments of the foremost radio engineers have been incorporated in the new KNIGHT 1937 models. Each set, as it comes off the production line, is given a thorough inspection for tone quality, sensitivity, selectivity, volume capacity and all-around performance. This careful check-up is your assurance that every KNIGHT Radio will give delightful tonal beauty and long, dependable service. The technical perfection of every KNIGHT Radio is fittingly matched by the latest cabinets distinguished for their graceful, pleasing beauty, their sturdy construction and their fine acoustical qualities. KNIGHT Radios have been styled with an eye toward the future. They demonstrate again that only ALLIED can offer you the highest quality radios you can buy—at the lowest prices.

Allied Offers A Radio for Every

CITY HOMES

FARM HOMES

with these NEW *Knight* RADIOS

THESE NEW FEATURES GIVE YOU MORE FOR YOUR MONEY

(1) **Automatic Tuning.** Sensational! New! A simple movement of the hand—and FLASH—you're tuned in instantly, silently, perfectly! The finest truly automatic tuning device known to radio.

(2) **Automatic Frequency Control.** For the first time at such a low price. "Snaps" your program into perfect focus—you can't tune "off-tone." This is one of radio's very latest and finest features.

(3) **Electric Eye.** Enables you to "see" when your station is perfectly tuned. No more guessing—no more noisy tuning. A wonderful aid to better radio reception.

(4) **Uni-Coil System.** A new pre-built and pre-tested assembly—designed for greater tuning stability and more sensitivity and selectivity.

(5) **Metal Tubes.** Perfectly self-shielding, quieter in operation—assure more sensitive performance, especially on Short Wave.

(6) **Automatic Tone Control.** Provides perfect acoustical matching on all programs; boosts bass and still retains treble. Gives a full new rich meaning to radio tone.

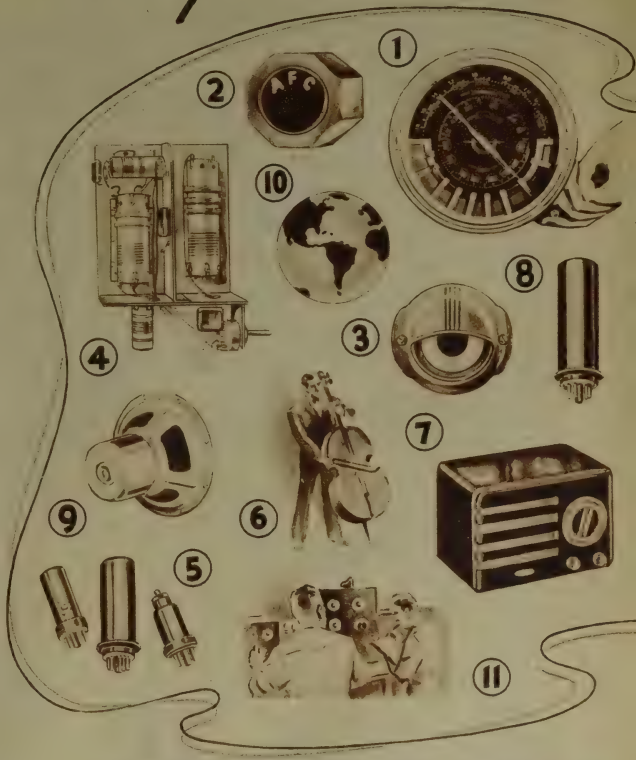
(7) **New Plastic Cabinets.** The latest vogue—available in attractive colors; will not mar or discolor. The ideal "spare" radio.

(8) **New 25L6 Beam Power Tube.** Used for the first time in Knight AC-DC sets—gives power never before possible in AC-DC radios.

(9) **New Speakers.** Latest powerful electrodynamics in AC and AC-DC models; new special alloy P.M. dynamic types in battery models. The finest speakers available. Built to handle all volume levels with extraordinary fidelity.

(10) **World-Wide Range.** All KNIGHT 3-Band Radios tune all the world—powerfully, dependably, and with tuning ease. KNIGHT 3 Band Radios bring you a fascinating enjoyable world of radio entertainment.

(11) **R.C.A. & Hazeltine Licensed.** Assures the full benefit of the newest engineering developments from these great laboratories.



TO HELP YOU SELL *Knight* RADIOS

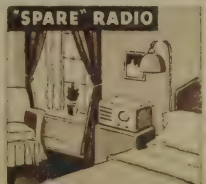
Sell more KNIGHT Radios with the aid of the attractive and valuable list price booklet we have prepared for you. Write for sample copies. Shows illustrations and descriptions of all KNIGHT Radio models with list prices only. A real sales-promoter! You can have this attractive booklet imprinted with your own business name and address. We will do it for you at insignificant cost. Make bigger profits selling the new 1937 dependable KNIGHT Radios.

NOTE: Practically every KNIGHT A.C. Radio is available with special transformer equipment for 95-230 Volts, 25-60 cycles operation at slight additional cost. Write for quotations on any particular KNIGHT Radio which you desire for any special voltage requirement.

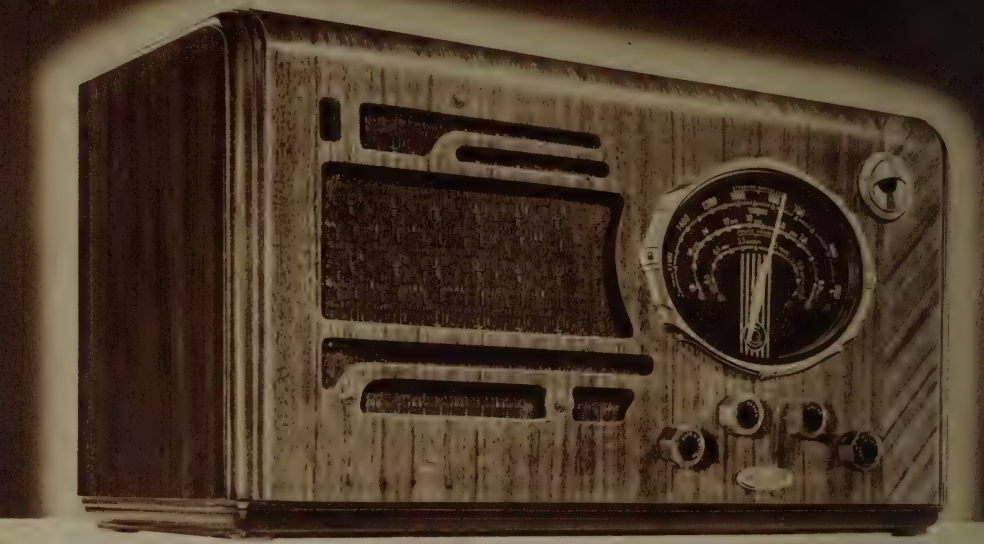
NOTE: For quick shipment and safe delivery we recommend that all radio receivers be ordered shipped by express. See page 136 of this catalog for handy table of express rates or consult your local express agency. (ALLIED packing is careful and safe—every shipment reaches you in perfect condition.)

53 GREAT MODELS

Purse and Purpose!



For Peerless Tone.... Knight 8 TUBE



The unerring "Electric Eye" assures maximum accuracy in tuning. You tune silently with the volume turned down until the dark sector is narrowest—turn the volume up and your station is there—clearly, perfectly!

Electric Eye

Newest R.C.A. metal tubes are employed in the most important stages of this powerful circuit. They assure greater sensitivity and stability—and are especially effective on the Short Wave bands because they are perfectly self-shielding and more sensitive and powerful.

Metal Tubes

The **Knight All-Wave 8** tunes everything on the air continuously from 17-550 meters covering all Short-Wave foreign and domestic programs; Amateur, Ship, and Aviation calls; and all American and Canadian standard Broadcast stations — powerfully and dependably.

WORLD WIDE RANGE

3 Full Bands

Thrilling life-like reproduction of every program is one of the outstanding features of the new **Knight 8.** Tonal quality at its finest is provided by the new full-sized super-dynamic speaker, mighty push-pull 6F6 metal tube power output and continuously variable Tone Control. Every overtone, every subtle nuance is brought out faithfully and flawlessly at all volume levels. No expense has been spared to make the new **Knight Superhet** the finest 8 tube receiver you can buy. Unsurpassable quality is evident in its expert workmanship, high-grade materials and careful construction.

The **Knight All-Wave 8 Tube Superhet** is superbly presented in a new striped walnut table cabinet with rolled top and contrasting trim strip. Measures 20½" wide, 8½" deep, 11" high. Supplied complete with 8" electro-dynamic speaker and 8 genuine R.C.A. tubes. For operation from 110 volts, 60 cycles A.C. Shipping weight, 28 lbs. An incomparable value. Code: GABLE.

A9752.
Retail Value, $62.50.
YOUR PRICE.....

$29.95

For operation on all voltages from 95 to 260 Volts, 25 to 60 cycles A.C., add $3.25.

RCA AND HAZELTINE LICENSED

- METAL TUBES
- WORLD RANGE
- 5 WATTS OUTPUT
- TONE CONTROL
- ELECTRIC EYE
- FULL A.V.C.

Built to exacting standards incorporating distinctive new features, and priced far below its real value—this new **Knight 8 Tube All-Wave A.C. Superhet** is a masterpiece of engineering and artistry. Tunes 3 continuous bands with powerful World-Wide range: 17-52 meters for reliable foreign and domestic Short Wave reception; 52-175 meters for Ships-at-Sea, Airplanes, Amateurs, and Police; and 175-550 meters for enjoyable coast-to-coast standard Broadcast American and Canadian programs. Brings you an altogether new concept of radio entertainment, featuring easy-tuning, world-wide coverage and true tonal fidelity. Has every important development to give the ultimate in radio refinement. • **New Oval Airplane Dial**—Fully illuminated, multi-colored; each wave band has separate, clearly-calibrated scale; band-indicator is built into dial and operates automatically from wave-band switch. • **Electric Eye**—The quickest visual tuning method ever devised—shows instantly when station is perfectly tuned in. • **Five Watts Output**—Strong audio power always in reserve—developed from new push-pull 6F6 metal output tubes. Wonderfully reproduced through full-sized electro-dynamic speaker. • **Full Automatic Volume Control**—Maintains steady volume level on both Short-Wave and Broadcast bands. Prevents fading and blasting. • **Variable Tone Control**—Permits personal selection of bass or treble accentuation. Emphasizes the natural tonal beauty of the receiver. • **R.F. Preselection**—Assures greater sensitivity and stronger signal pickup. • **3 Gang Condenser**—Ruggedly constructed, full rubber-floated, for sharper, more selective tuning. • **Newest R.C.A. Tubes**—Combination of latest metal and glass tubes for utmost performance from each stage of the Superhet circuit. (See detailed circuit description on opposite page). Every one of these features contributes to the generous power, keen selectivity, and true-fidelity tone which are evident in the splendid performance of the **Knight 8.** A world of radio entertainment awaits you with this new **Knight** model. It is one of today's finest musical instruments, priced unbelievably low to be within the reach of every radio buying prospect.

8 TUBE CHASSIS MODEL

The new **Knight 8 Tube A.C. Superhet** is also offered in de luxe chassis form. Size: 11½"x8"x9". Supplied complete with full 10" electro-dynamic speaker and 1—6A7; 1—6K7; 1—75; 1—6C5; 2—6F6; 1—80; and 1—6E5 genuine R.C.A. tubes. Escutcheon and dial glass included. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 20 lbs. The ideal chassis for every replacement need. Code: HEART.

A9754.
Retail Value, $54.50.
YOUR PRICE.....

$25.95

For operation on all voltages from 95 to 260 Volts, 25 to 60 cycles A.C., add $3.25.

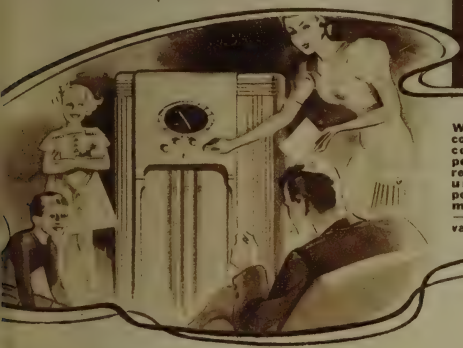
ALL-WAVE A.C. SUPERHET....

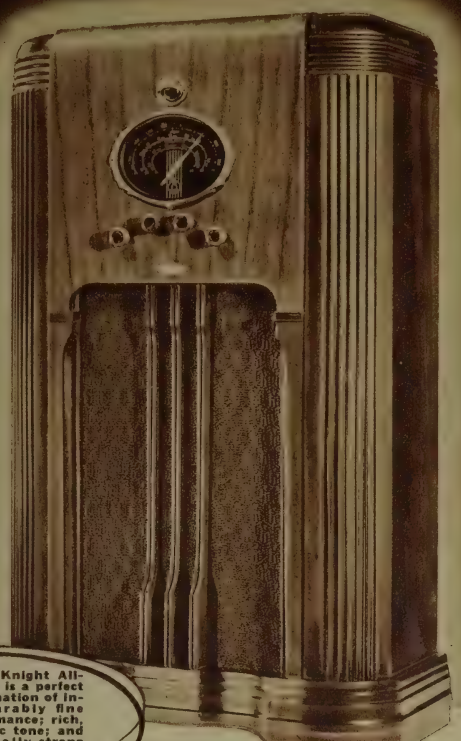
WORLD-WIDE RANGE

Tour the World! Travel the air-lanes any time with the new 1937 **Knight 8 Tube All-Wave A.C. Superhet!** Its powerful three-band coverage tunes everything on the air from 17 to 550 meters. 17-52 meter band covers thrilling Short-Wave foreign programs; 52-175 meter band tunes interesting Police, Amateur, Airplane calls and Ships-at-Sea; 175-550 meter band brings you all American and Canadian standard Broadcast stations. Tuning is easy and precise with the accurate Electric Eye and new oval Airplane dial; each wave-band on the dial has an individual scale to simplify station logging. You always know exactly which band you're tuning on the **Knight 8**—visual wave-band indicator operates instantly from dependable wave-band switch. Anyone can tune the **Knight 8** quickly and conveniently. And whether you're tuned to a symphony from overseas or a popular domestic program, you'll enjoy the faithful tonal response of the **Knight All-Wave Superhet.** It reproduces the complete range of voice and music with amazing fidelity and brilliant clarity. The concert-size 10" dynamic speaker in the console model and the full 8" speaker in the table model have been especially selected and matched to assure proper acoustical response. The result is a harmonious combination of powerful World-Wide reception, maximum selectivity, and rich, vital tone.

POWERFUL NEW CIRCUIT

A brilliantly engineered R.C.A. and Hazeltine licensed Superhet circuit is used in table, console, chassis, and phono-radio models of the **Knight All-Wave 8.** Exactly the same in all four models, this advanced circuit uses the following new R.C.A. tubes: 6A7 as Mod.-Osc.; 6K7 as I.F. (metal); 75 as Det.-A.V.C.; 6C5 as phase-inverter (metal); 2—6F6 as push-pull output (metal); 80 as rectifier; 6E5 as Electric Eye. The 2—6F6 metal tubes are used in a mighty push-pull circuit to develop a full 5 watts output of undistorted power usually found only in much higher-priced receivers. Each tube contributes effectively to the outstanding performance, reserve power, and long distance-reach of the **Knight 8.** Other circuit features include R.F. preselection for maximum signal pick-up and highest sensitivity; full A.V.C. for uniform level of volume; variable Tone Control for choice of tonal emphasis; rubber-mounted 3-gang tuning condenser for sharper selectivity and utmost stability. Every circuit component is fully shielded for dependable noise-free operation. Careful selection of highest quality materials, painstaking craftsmanship, and laboratory testing assure you of long, trouble-free service. The **Knight 8** is truly a quality radio—an unsurpassed value at our low price.





The Knight All-Wave 8 is a perfect combination of incomparably fine performance; rich, realistic tone; and unusually strong power. It is unmatched for beauty—unparalleled for value.

The **Knight 8 All-Wave Superhet** in console above, complete with 10" speaker and R.C.A. tubes. For 110 Volts 60 cycles A.C. Shpg. wt., 55 lbs. Code: CHORD.
A9753. Retail Value, $87.50.
YOUR PRICE..... **$41.85**

For operation on all voltages from 95 to 260 Volts, 25 to 60 cycles A.C., add $3.25.

8 TUBE PHONO COMBINATION

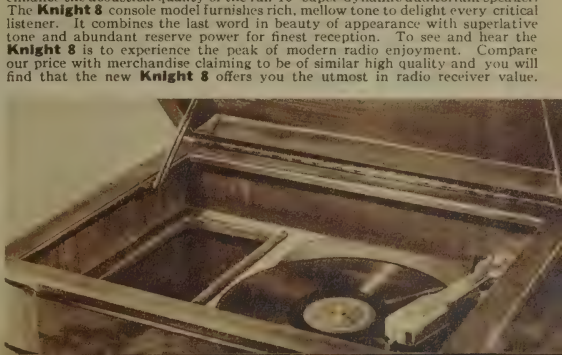
For discriminating music-lovers, the **Knight All-Wave 8** is also offered in a new phono-radio combination. This distinguished instrument offers the whole world of finest musical entertainment. It employs the de luxe chassis described above to provide powerful World-Wide radio reception, rich, full-bodied tone, and superb all-around performance. Tunes three full bands from 17 to 550 meters. Features include: new oval airplane dial, Electric Eye, new metal tubes, full A.V.C., variable Tone Control, 3 gang condenser, R.F. Preselection, full 5 watts output, etc. The phonograph equipment is of the very finest quality throughout, designed to give dependable, wide fidelity reproduction.

The **Knight All-Wave 8** is offered in a luxurious console cabinet of striking beauty. Has front face of richly striped butt walnut with roll-top effect; set off by fluted pilasters and recessed speaker grille. Hand-rubbed to a smooth, lustrous finish. Measures 39 inches high, 26 inches wide, 10¼ inches deep. Will add charm and dignity to any setting. This console is a handsome complement to the powerful circuit it houses. It has been fully tone-conditioned to enhance the acoustical quality of the full 10" super-dynamic auditorium speaker. The **Knight 8** console model furnishes rich, mellow tone to delight every critical listener. It combines the last word in beauty of appearance with superlative tone and abundant reserve power for finest reception. To see and hear the **Knight 8** is to experience the peak of modern radio enjoyment. Compare our price with merchandise claiming to be of similar high quality and you will find that the new **Knight 8** offers you the utmost in radio receiver value.

LUXURIOUS ENTERTAINMENT

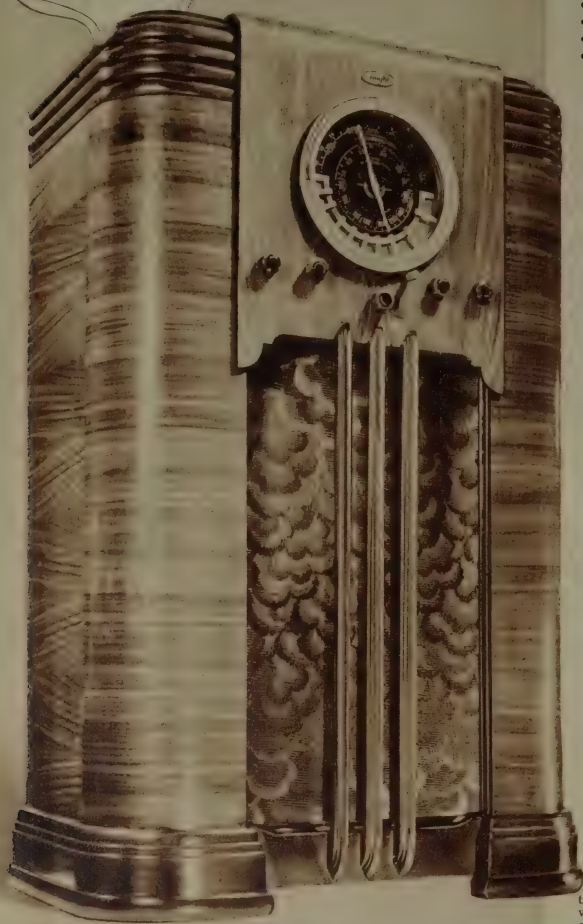
Perfect reproduction of all recordings is assured by the high grade pickup and silent, powerful phono-motor. Records are played through the radio amplifying circuit—with high fidelity never before possible. Plays all 10" and 12" records with lid closed to eliminate surface noise. Full 5 watts output provides perfect amplification of the most delicate nuances and overtones through the concert-grand 10" electro-dynamic speaker. The **Knight 8 Tube Phono-Radio Combination** is a musical instrument of rare distinction. Supplied complete with 10" speaker and 8 genuine R.C.A. tubes. For operation from 110 volts, 60 cycles A.C. De luxe cabinet measures: 42"x25"x18½"; has hinged lid. Shpg. wt., 132 lbs. Code: VOCAL.
A9755. Retail Value, $175.00.
YOUR PRICE..... **$98.50**

For operation on all voltages from 95 to 260 Volts, 25 to 60 cycles A.C., add $3.25.



The Sensation of The Radio World

NEW Knight 11 TUBE with AUTOMATIC DIALING



*RCA AND HAZELTINE LICENSED

We're 100% back of this sensational new Knight 11 Tube All-Wave Superhet. We invite you to try it personally to put it through its astonishing paces, to experience for yourself the thrill of Automatic Tuning, of world-wide reception, of high fidelity tone. Treat yourself to real quality and amazing value.
YOUR PRICE ONLY .....

$54.95

- WITH METAL TUBES
- 9 WATTS OUTPUT
- 12" DYNAMIC SPEAKER
- NEW A.F.C. FEATURE
- AUT. TONE CONTROL
- DOUBLE P.P. AUDIO
- 3 FULL BANDS
- GIANT 8" DIAL
- NOISE SILENCER
- PRE-SELECTION
- 3 GANG CONDENSER
- FULL A.V.C. ACTION

This magnificent new **Knight 11** Tube All-Wave Superhet with sensational **Automatic Dialing** is the year's greatest radio, designed for the utmost in radio enjoyment. Tune in your favorite domestic stations automatically, "quick as a flash." Thrill to powerful clear reception of foreign stations. Enjoy tone quality such as you have never heard before. There is nothing like the **Knight 11** on the market today, even at double the price.

• **Tunes Three Full Bands.** The **Knight 11** covers the complete range: 16-54 meters and 52-178 meters for consistently reliable Short-Wave foreign, amateur, aviation, and police calls; 174-560 meters for powerful long-distance reception of all standard American and Canadian Broadcast. Features every de luxe refinement.

• **Automatic Dialing.** Tunes your favorite local stations automatically. Call letters appear right on the dial. Swing the automatic tuning lever to the call letters of the station you want—and flash!—you're tuned in instantly, silently and perfectly. (See next page for detailed description.)

• **Giant Color-Band Dial.** In addition to automatic tuning, the **Knight 11** has a regular big illuminated airplane dial. Has unique visual automatic wave band indicator; shows you exactly which band is in use. Broadcast channels are calibrated clearly in kilocycles. Short-Wave bands are in megacycles. Foreign channels are indicated.

• **Metal Tube Efficiency.** 10 new metal tubes and 1 glass type are used effectively in the great new **Knight 11** Superhet as follows: 6K7 as Pre-tuned R.F.; 6A8 as Mod.-Osc.; 6K7 as I.F.; 6J7 as A.F.C.; 6H6 as Det.-A.V.C.; 6C5 as 1st Audio; 2—6C5 as push-pull 2nd Audio; 2—6F6 as push-pull power stage; 80 as rectifier. You get the most from each tube—reflected magnificently in full nine watts undistorted output and wonderful high fidelity tone.

• **Automatic Frequency Control.** Found only in the most costly radios. AFC shifts the **Knight 11** automatically into hairline tuning for perfect tone. You can't tune in "off-tone"—the circuit snaps into perfect tune anywhere within the range of the station signal you are tuning.

• **Automatic Tone Control.** Boosts bass automatically without cutting out the high notes. Has five positions permitting perfect acoustical matching for any type of program. Has final position for best possible noise-free distance and Short-Wave reception.

• **Interstation Noise Silencer.** You can tune from station to station with no screeching, whistling or squealing noises. An ingenious automatic device that makes tuning a real pleasure.

• **More Features.** Additional features found in the **Knight All-Wave 11** include: Automatic Volume Control for steady, uniform volume; rubber-floated 3 gang tuning condenser for sharp selectivity; preselector for added sensitivity; double push-pull audio for tremendous 9 watts power; giant 12 inch auditorium dynamic speaker for broadcast-studio tone quality; large oversize chassis construction with wide safety margins in every component.

• **Striking New Console.** The **Knight 11** is fittingly presented in a magnificent console built to the highest standards. Has richly figured butt walnut front face, with roll sides of matched figured striped walnut. Recessed grille is covered with beautiful dull gold cloth fronted by matched walnut posts. Size: 41" high, 26½" wide, 14½" deep.

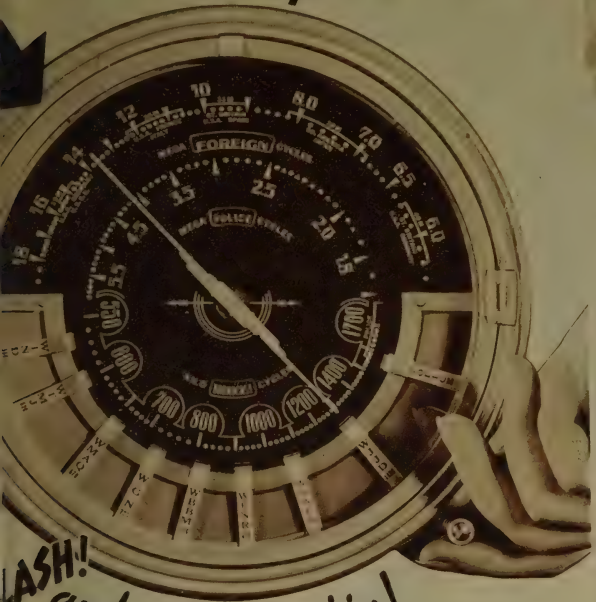
• **Console Model Complete.** The **Knight 11** All-Wave Superhet is offered complete in console with full 12" dynamic speaker and genuine R.C.A. tubes. For 110 Volts 60 cycles A.C. operation. Shpg. wt., 79 lbs. Code: FLASH.

A9757. Retail Value, $120.00.
YOUR PRICE **$54.95**

For operation on all voltages from 95 to 260 Volts, 25 to 60 cycles A.C., add $3.75.

WORLD-WIDE A.C. SUPERHET

at an Amazing low Price!



LASH! and you're tuned in!

HOW AUTOMATIC TUNING WORKS

Flash! There's your station! Radio's newest sensation! In addition to the regular way of tuning, you can now tune your favorite stations automatically by call letters. Just swing the automatic tuning lever to the call letters of the station you want—and flash!—you're tuned in instantly, silently, perfectly. A child can do it! No more guessing—no more numbers to remember. The call letters of 12 of your favorite stations show right on the **Knight 11 Automatic Dial.** They are individually and automatically illuminated as these stations are tuned by this new, simple, quick method. No noise between stations. It's as easy as pointing a finger! You can tune twelve stations in twelve seconds! Automatic Dialing is easy to adjust in the new **Knight 11.** No tools are needed for the initial adjustment. Call letters of all stations in the U. S. (and all Canadian and Mexican stations) are included in tab form, and any favorites you may desire to tune automatically (these may be replaced by others easily whenever you wish) can be inserted in the tab holders on the dial in a few minutes. Any one can do it easily—regardless of where he is located. No other radio set today offers true **Automatic Dialing** at less than twice our amazingly low price! Only **ALLIED** can bring you such outstanding Radio value!

THE CHASSIS MODEL

The **Knight 11 Tube All-Wave Superhet with Automatic Dialing** is also offered in the de luxe chassis illustrated at the right. A superb radio in every regard. Features: World-Wide range; Automatic Tuning; Automatic Frequency Control; Automatic Tone Control; Noise Silencer; 9 watts output; 12" dynamic speaker; metal tubes; A.V.C.; giant airplane dial; 3 gang condenser; double push-pull audio; pre-selector; etc. Exactly as described above. Beautifully built oversize chassis—with big safety margins built in throughout. Absolutely the last word in radio design and performance—incorporating the newest and finest features developed to date. This magnificent 11 tube chassis measures 16¾" wide, 13½" deep, 11" high. Comes complete with Automatic Dialing mechanism, 12" dynamic speaker and genuine R.C.A. tubes. For 110 Volts, 60 cycles A.C. Shpg. wt., 40 lbs. Code: EPOCH.
19758. Retail Value, $84.50.
OUR PRICE **$39.95**

For operation on all voltages from 95 to 260 Volts, 25 to 60 cycles A.C., add $3.75.

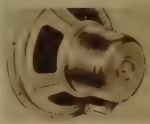
AUTOMATIC FREQUENCY CONTROL

The latest development in radio engineering. Assures perfect tuning—perfect broadcast studio tone quality. Known as AFC; used only in the most expensive sets. Instantly, automatically shifts the circuit into hairline tuning for perfect tone. As you move the dial pointer to within the effective tuning range of any station furnishing a strong signal, the receiver's tuned circuit automatically and instantly snaps into perfect tone position. This feature cuts tuning time in half and doubly assures correct tone. You simply can't tune "off-tone" with the **Knight 11.**

METAL TUBE EFFICIENCY

10 genuine metal tubes (several with multi-functions) are used effectively in the new **Knight 11.** These "sealed-in-steel" tubes are perfectly self-shielding; they are unusually sensitive; they reach out further and provide reception of even the most distant Short Wave stations.

12" DYNAMIC SPEAKER



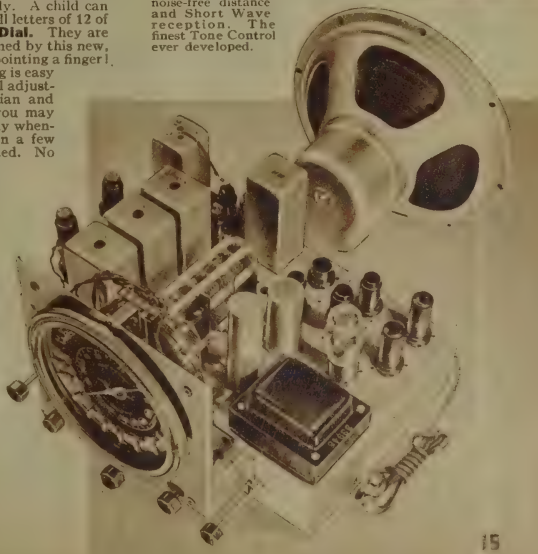
Rich, high fidelity tone is consistently reproduced by the giant 12" Electro-dynamic speaker used in the **Knight 11.** More sensitive, more powerful, more faithful, this speaker is the secret of the full rich tone-depth of the **Knight 11.**

EXCLUSIVE A.F.C.

This knob controls A.F.C. in one position and is used when automatic tuning is in action. "Snaps" stations into tune perfectly without inter-station noise. The second position is for long-distance tuning and Short Wave and also helps make easy the initial adjustment of station tabs on the automatic dial.

AUTOMATIC TONE CONTROL

This control has 5 positions: (1) "on-off"; (2) treble at maximum (for singing and speech); (3) boosts bass, retains treble (for orchestra); (4) boosts bass further, retains treble (for symphonic programs); (5) normal bass—cuts treble—also the best position for noise-free distance and Short Wave reception. The finest Tone Control ever developed.



Knight 7 TUBE PHONO-RADIO COMBINATION

TO MEET THE DEMAND FOR *Complete* ENTERTAINMENT

The **Knight 7 Tube Phono-Radio Combination** is a superb new instrument designed for discriminating music lovers. It combines powerful two-band radio reception with facilities for enjoyable reproduction of all phonograph records. The radio is built around a new R.C.A. and Hazeltine licensed Superhet circuit covering two full bands, from 75 to 550 meters for excellent coverage of Short-Wave Police, Amateur and Aviation calls, together with long-distance standard Broadcast stations. Advanced features include: Electric Eye for accurate, easy visual tuning; new 25L6 Beam Power Amplifier tube for strong output and extra power; Built-in antenna for greater convenience; full Automatic Volume Control to maintain steady volume level. • **Built-in Electric Phonograph**—plays all 10 and 12-inch records through the radio amplifying circuit; provides true fidelity reproduction of all symphonic or popular recordings. Uses high-grade phono motor and pick-up. • **Attractive Cabinet**—with hinged lid, has front face of selected striped walnut and contrasting horizontal bands. Measures: 15½"x14½"x14½". Full-vision illuminated airplane dial is clearly calibrated and has convenient pointer-knob. Newly designed electro-dynamic speaker handles full volume without distortion; brings you true-to-life clearness and full-bodied tone.

• **Circuit Features.** Newest Raytheon tubes are used: 6A7 as Det.-Osc.; 6D6 as I.F.; 75 as 2nd Det.-A.V.C.-Audio; 25L6 as Beam Power Amplifier; 25Z5 as Rectifier; 6G5 as Electric Eye; L49C Ballast tube. Has Litz-wire I.F. coils, heavy-duty condenser, etc. For operation from 110 volts, 60 cycles A.C. (Radio only may also be used on 110 volts, 60 cycles, A.C. or D.C. Phono is for 110 volts, 60 cycles A.C. only).

• **Supplied Complete**—with Raytheon tubes and speaker ready to operate. Shpg. wt.: 20 lbs. An outstanding value in a high quality dual-purpose musical instrument that will give the utmost in enjoyable entertainment both from records and from the air. Code: CAROL.

A9735. Retail value, $84.50.
YOUR PRICE..... **$39.95**

Knight 4 TUBE PORTABLE BATTERY RADIO

ALLIED does it again—brings you the first compact portable radio you can actually use anywhere. The **Knight 4 Tube Portable Battery Radio** is a complete radio fully contained in a sturdy cabinet measuring only 9¼"x 8¾"x4¼". • **Efficient Circuit.** A new R.C.A. and Hazeltine licensed Superhet circuit tunes the entire standard Broadcast band from 170 to 555 meters for strong, enjoyable reception. Has full Automatic Volume Control for constant volume level. Uses newest low-drain tubes: 1A4, 1B4, 1A6, 1F4S. Battery drain is only .30 amps from "A" batteries, 7 M.A. from "B". • **Everything Built-In.** A full 5" P.M. dynamic speaker is built into the set—no headphones are required. Telescoping aerial assures greatest signal pickup. All batteries are self-contained; only 2—1½ volt flashlight "A's," and 3—45 volt portable "B's" are required. Illuminated airplane dial is clearly calibrated in kilocycles and easy to tune. • **Smart Waterproof Cabinet.** The **Knight 4 Tube Battery Portable** is supplied in a compact carrying case finished in tan, waterproof, airplane luggage material. Has convenient strap for carrying by hand or over shoulder. The **Knight 4** is a fine summer-time seller; order one today as a demonstrator. Supplied complete with built-in speaker and tubes. Less batteries. Shpg. wt., 7 lbs. Code: FETCH.

A9790. Retail Value, $26.50.
YOUR PRICE..... **$16.85**

A9791. Battery Kit for Knight 4. Includes 2—1½ volt flashlight "A" batteries and 3—45 volt portable "B" batteries. Shpg. wt.: 4 lbs.
NET..... **$4.25**

Carries Everywhere Plays Anywhere

Hiking — walking — trips — whenever you travel, slip the **Knight Portable** over your shoulder and enjoy radio entertainment while you're "on the go."

On the beach — at picnics—let the **Knight 4** bring you music and song. It will be the "life of the party" no matter where you take it.

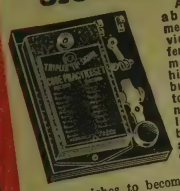
Take the **Knight Portable** along when you go canoeing — it's an ideal companion anywhere. Brings you continuous dependable radio entertainment.

CARRY THE WORLD WITH YOU

Whenever you go motoring, fishing, hiking, camping—anywhere—carry the world with you in the **Knight 4 Tube Portable Battery Superhet.** It's as easy to carry as a camera. It will play anywhere. Simply flick the switch and enjoy fine entertainment from any standard Broadcast station. No need to miss your favorite programs when you're away from home. The **Knight 4** can be used in cars, trains, boats—in the parks, on the beach. Use it at home as a "spare" receiver. Take it out on the porch, on the lawn. The **Knight 4** is the most versatile receiver you've ever seen—and costs almost nothing to operate. Low drain tubes assure long battery life; inexpensive flashlight "A" and portable "B" batteries supply all the power needed to give you strong reception, life-like tone, and dependable operation. The **Knight 4** is easy to tune at night—it has a fully illuminated, clearly calibrated airplane dial. The telescoping self-contained aerial eliminates all trailing wires. The **Knight 4** is radio's newest sensation!

FEATURE VALUES

TRIPLEX SIGNALLER



A neat, durable instrument that provides three different signal methods: a high frequency buzzer, similar to a radio signal; a blinker light, as used by the Navy; and a telegraph sounder. Ideal for anyone who wishes to become familiar with telegraphy or radio code, or blinker signalling. Easy-to-read code chart is mounted on the signal box. 2—No. 2 flashlight batteries are required. Switch on panel board enables quick change from one type signal to another; clips are provided for connection to an additional set. With complete instructions and bulb but less batteries.

A5552. SINGLE UNIT. YOUR PRICE..... **88c**

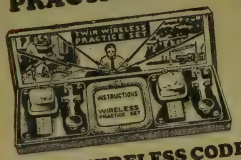
A5553. DOUBLE UNIT, With 50 ft. of wire..... **$1.91**

KNIGHT 5-Inch MAGNETIC SPEAKER

A midget in size but big in results. This splendidly designed midget speaker has a wide field of usefulness with midget sets, battery sets, additional speaker connection, room-to-room amplifier broadcast, auto sets, etc. Sturdily made with heavy stamped frame. Heavy oversized permanent magnet of "Chrome" steel develops exceptional power. Very sensitive with response over the entire audible range, assuring accurate reproduction with fidelity and clarity. Metal rim has holes for screw mounting. A high-quality speaker in every respect—designed to give the finest tonal reproduction at all times. Shipping weight, 2 lbs.

A Super Value. A9251. YOUR PRICE..... **$1.13**

SIGNAL—TWIN WIRELESS CODE PRACTICE SET



LEARN WIRELESS CODE

A practical, scientifically designed set, invaluable for learning wireless code. Consists of two complete "stations," each equipped with key, buzzer and easy-to-read code plate mounted on a sturdy, attractive base. 75 feet of wire supplied. May be operated up to 1000 ft. apart by adding more wire. Uses standard dry cells. Complete with instructions. Shpg. wt., 2½ lbs.

A7700. YOUR PRICE..... **$2.03**

7-INCH WORLD GLOBE

A dandy up-to-the-minute globe for students, Short Wave Fans, geographic study, etc. Free rotating 7 inch globe mounted in accurately marked full meridian. Countries clearly defined in color; finished in glossy moisture-proofed enamel; Base and meridian in attractive statuary bronze. Indicates location of all principal cities, Short-Wave Stations, Time Zones, etc. An invaluable aid to students in locating countries and major points throughout the world; to aid Short-Wave Fans in locating foreign SW Broadcast stations; for reference work in connection with current news reports of foreign affairs, etc. Every member of the family will find this globe intensely interesting. Wt. 2 lbs.

A10140. 7" GLOBE. YOUR PRICE..... **95c**

AMERICAN BELL HEADPHONES

Unusually sensitive and efficient headphones, made by one of America's foremost manufacturers. Noted for fidelity and clarity of tone. Aluminum shells and light aluminum caps. Highly retentive magnets. DX fans will be delighted with their fine reception. 3000 and 2000 ohm types are available.

A2807. 3000 Ohm Phones. YOUR PRICE..... **$1.25**

A2806. 2000 Ohm. NET..... **97c**

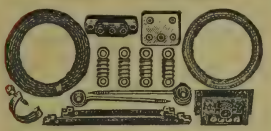
Single Headphones

An easy-to-wear, dependable single unit 'phone with spring steel headband. Lightweight.

A2813. 1000 Ohms. YOUR PRICE..... **66c**

A2814. 1500 Ohms. YOUR PRICE..... **79c**

KNIGHT UNIVERSAL ANTENNA KIT



A complete kit of essential parts. Enables you to erect the most efficient type of antenna for your particular set. Includes sufficient material for an antenna of the "Marconi," "Doublet," "Double-Doublet," or "Matched Impedance" type, whichever you prefer.

KIT CONSISTS OF:

100 ft. coil stranded aerial wire; 50 ft. coil rubber-covered twisted transmission line; Porcelain crossover block; 4 glass insulators; 2—6" screw eyes; Doublet type lightning arrester; Doublet window strip; 1 ground clamp; 1 antenna coupler; complete instructions. An unusual value.

A3380. List, $4.00. NET..... **$1.81**

RADIO PHYSICS COURSE

By A. A. GHIRARDI

The latest enlarged and revised edition of radio's leading textbook. Offers a complete course in radio and electricity. Written in easy-to-understand language. Invaluable to the Radio Beginner, Student, Servicemen, Set-Builder and Experimenter.

972 PAGES
508 ILLUSTRATIONS

Includes valuable chapters on Sound, Vacuum Tubes, Superhets, Short Wave, Auto Radios, Electron Theory, Electromagnetism, Test Instruments, Battery Radio, Television, Photo-Electric Cells, Talkies, Aircraft Radio, etc. A complete treatise on Radio Theory and Practice. Attractively printed and bound in durable cloth. Wt. 5 lbs.

A7077. POSTPAID IN U. S. A. YOUR PRICE..... **$4.00**

"RADIO PHYSICS COURSE" is a standard textbook in many leading technical schools. We invite inquiries from Schools and Colleges for quantity prices.

HOME BROADCASTERS

DELUXE MODEL

An efficient novelty microphone for home radio use. Easily connected to any set. Offers endless entertainment; make your own broadcasts and announcements. Push-button controls operation. Attractive green-bronze finish. 5" high. Wt., 1 lb.

A5111. NET, EACH..... **79c**

STANDARD MODEL

Similar to the above model, but smaller. In bronze metal case, 3¾" high. Complete with adapters and instructions. A practical and amusing home microphone at an exceptionally low price. Wt., 12 oz.

A5112. NET, EACH..... **54c**

TRIMM QUIET RADIO Headphone Attachment

Designed to be attached to the speaker voice coil of any radio set. Permits operation of either headphones, or speaker, or both together. Easily and quickly attached. Adapter has built-in switch, phone-jack with 4 ft. cord. Headphones are extremely compact, light and sensitive.

A5267. YOUR PRICE..... **$2.59**

For Hard-of-Hearing

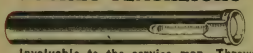
Model 641. Same adapter as above but fitted with Trimm Oscillator (bone conduction unit).

A5268. List, $20.00 NET..... **$11.76**

Model 642. Same as Model 641 but equipped with famous Trimm Featherweight Receiver adjusted for hard-of-hearing use.

A5269. List, $14.00 NET..... **$8.23**

POCKET FLASHLIGHT



Invaluable to the service man. Throws a concentrated spot of light into dark corners of cabinet and chassis. Vest-pocket size, fountain-pen style. Only 5⅜" long, ⅝" dia. Shpg. wt., 5 oz.

A1160. Complete with battery and bulb. NET..... **28c**

A1156. Extra 2 cell battery. NET, EACH..... **7c**

A1161. Extra bulb. NET, EACH..... **7c**

BUD AERIAL FILTER

A highly successful aerial filter; absorbs and eliminates signals of interfering stations. Adds real selectivity and sensitivity to your set. Adjustable control for utmost selectivity. May be installed in radio cabinet. Housed in handsome, durable case.

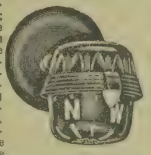
A2602. List, $1.50. YOUR PRICE..... **74c**

Tobe Power Line Filter for AC or DC Current

A capacity type filter for effectively eliminating line noises. May be used on the interfering device or on a radio set. Requires no ground connection. Plugs into standard receptacle. Has socket for receiver plug. Simple to install. For 110 volt lines, AC or DC.

A8406. List, $1.00. YOUR PRICE..... **59c**

U. S. AUTO COMPASS Compensator Is Built-In



A handsome, efficient compass; tells at a glance the direction in which you are driving. Invaluable when touring, or on hunting or camping trips in unfamiliar territory. Especially helpful at night. Case is of attractive black bakelite, with chrome fittings. Built-in compensator assures accurate readings. With vacuum-cup and bracket for windshield or overhead mounting.

A2948. NET..... **$1.45**

RUSH ORDER BLANK

Allied Radio CORPORATION

833 W. JACKSON BLVD. CHICAGO, ILL.

Cable Address: ALRADIO

All Phones HAYmarket 6800

A3

Write Your Name in Full

Street Address | R. F. D. | Box No.

Post Office | State

Please Give Shipping Point if Different from Post Office

Shipping Point | State | County

HOW SHALL WE SHIP

Express ..... ☐
Freight ..... ☐
Parcel Post.... ☐

On Parcel Post Shipments Be Sure to Include Enough for Postage; Any Excess Will Be Promptly Refunded.

ENTER AMOUNT REMITTED HERE

Paid in Full $.....
Part Paid $.....
C.O.D. $.....

If You Send Currency, Be Sure to Register Your Letter

SEE INDEX PAGE FOR "HOW TO ORDER"

TERMS— Our terms are cash. We ship C. O. D.; new customers should accompany order with 20% deposit. All trade and cash discounts have already been deducted in our catalog quotations. All prices are net, f.o.b. Chicago or factory.

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12 B

TRANSPORTATION ALLOWANCE ON ORDERS OF $25.00 OR MORE

Make your order $25.00 or more and you may deduct 2% from the total as a transportation allowance. This applies to shipments made anywhere in the United States on all radio merchandise described in this catalog, except National Company merchandise. (Foreign orders excepted.) Whether you desire your shipment to go forward by Express or Parcel Post or Freight the same 2% allowance will be made. This offer makes our low prices even more attractive, assuring you bigger margins of profit on every order. Take advantage of our liberal Transportation Allowance. It will pay you to make your order come to $25.00 or more.

ON FREIGHT OR EXPRESS ORDERS

If your station has an agent do not send money for shipping charges. If no agent, send money to pay the charges in advance. Charges are the same either way.

AMOUNT FOR GOODS		
AMOUNT FOR PARCEL POST (We Refund Every Penny Not Used)		
See Note ← AMOUNT FOR PREPAID FREIGHT OR EXPRESS		
TOTAL AMOUNT ENCLOSED If currency be sure to send by Registered Mail.		

RADIOTRON TUBES

R.C.A.-Radiotron Tubes are always the standard for dependable performance and superb operating efficiency. They enjoy a tremendous consumer acceptance and are the most widely demanded tubes sold today. They represent a good, steady source of profit for the dealer who stocks them. All R.C.A.-Radiotron tubes are sold in attractive factory-sealed cartons to assure your trade of brand-new perfect tubes in original packages, tested for quality, just as they left the factory. This method of packing builds good-will and sales. R.C.A.-Radiotron Tubes represent full value. They give longer life, heat quicker, and have better tone quality together with unusual uniformity and stability of operation. WE CARRY THE COMPLETE LINE OF R.C.A. TUBES IN STOCK AT ALL TIMES.

EXTRA QUANTITY DISCOUNTS

You can earn bigger profits by buying R.C.A. tubes in quantities. We give you an additional 10% discount from the net prices shown below when you purchase 25 or more R.C.A.-Radiotron Tubes in one order. R.C.A. Tubes are always in demand. You can easily select 25 fast-selling types from the complete listing on this page, and by doing so you benefit doubly—you round out your stock, and you increase your profit from every tube sale by 10%.

STANDARD GLASS TYPE TUBES

Type	No.	List	Net
1A4	A259	1.75	.95
1A6	A158	1.50	.81
1B4	A260	2.00	1.11
1B5	A174	1.25	.68
1C6	A159	1.75	.95
1F4	A135	1.50	.81
1F6	A136	2.00	1.11
2A3	A160	2.25	1.38
2A5	A161	1.20	.65
2A6	A162	1.20	.65
2A7	A163	1.50	.81
2B7	A166	1.50	.81
5Z3	A171	1.00	.54
6A4-LA	A164	1.50	.81
6A6	A199	1.50	.81
6A7	A165	1.35	.73
6B7	A167	1.50	.81
6C6	A168	1.20	.65
6D6	A169	1.20	.65
6E5	A258	1.50	.81
6F7	A170	1.75	.95
6G5	A197	1.50	.81
12A7	A198	2.00	1.11
12Z3	A172	1.10	.60
25Z5	A173	1.20	.65
00A	A100	2.00	1.11
1V	A103	1.10	.60
01A	A101	.70	.37
10	A104	2.25	1.38
112A	A107	.90	.49
15	A196	2.00	1.11
19	A108	1.20	.65
20	A109	2.00	1.11
22	A110	1.50	.81
24A	A111	1.00	.54
26	A112	.70	.37
27	A113	.80	.43
30	A114	.80	.43
31	A115	.90	.49
32	A116	1.50	.81
33	A117	1.25	.68
34	A118	1.50	.81
35	A119	1.00	.54
36	A120	1.10	.60
37	A121	.90	.49
38	A122	1.10	.60
39-44	A123	1.10	.60
40	A124	1.00	.54
41	A125	1.10	.60
42	A126	1.20	.65
43	A127	1.20	.65
45	A129	.80	.43
46	A130	1.35	.73
47	A131	1.25	.68
48	A132	3.00	1.83
49	A133	1.20	.65
50	A134	2.25	1.38
53	A137	1.50	.81
55	A138	1.25	.68
56	A139	.80	.43
57	A140	1.10	.60
58	A141	1.10	.60
59	A142	1.50	.81
71A	A143	.80	.43
75	A144	1.10	.60
76	A145	.80	.43
77	A146	1.20	.65
78	A147	1.20	.65
79	A148	1.50	.81
80	A149	.70	.37
81	A150	2.00	1.11
82	A151	1.10	.60
83	A152	1.10	.60
83V	A194	2.00	1.11
84	A153	1.50	.81
85	A154	1.20	.65
89	A155	1.50	.81
V99	A156	1.50	.81
X99	A157	1.50	.81
WD11	A105	2.00	1.11
WX12	A106	2.00	1.11
874	A207	4.00	2.75
876	A208	6.00	4.25
886	A209	8.00	5.75

ALL-METAL TYPE TUBES

Designed by General Electric; developed and manufactured by R.C.A.-Radiotron. The new metal tubes feature unusual sturdiness, self-shielding, quiet operation, better short wave results, new octal base, self-aligning plug and key, etc. The new metal tubes are not directly interchangeable with conventional glass tube types. We carry all metal type R.C.A. tubes in stock constantly.

Type	No.	List	Net
6A8	A175	1.50	.81
6B8	A192	1.75	.95
6C5	A176	1.25	.68
6F5	A177	1.25	.68
6F6	A178	1.35	.73
6H6	A179	1.25	.68
6J7	A180	1.50	.81
6K7	A181	1.35	.73
6L6	A188	2.25	1.38
6L7	A182	1.75	.95
6N7	A191	1.75	.95
6Q7	A185	1.35	.73
6R7	A184	1.35	.73
6X5	A189	1.50	.81
5W4	A190	1.00	.54
5Z4	A183	2.00	1.11
25A6	A186	1.50	.81
25L6	A193	2.25	1.38
25Z6	A187	1.50	.81

A255. METAL TUBE CHARACTERISTICS BOOKLET. Contains valuable information, including pin arrangements, covering new metal tubes. **NET** **10c**

OCTAL BASE GLASS TUBES

Glass tubes with identically the same characteristics as new metal tubes. Interchangeable with metal tubes having same type numbers (except that the 5Y3 is a counterpart of the 5Z4). We carry all types in stock.

Type	No.	List	NET
1C7G	A562	$2.00	$1.11
1D5G	A563	2.00	1.11
1D7G	A564	1.75	.95
1E5G	A565	2.00	1.11
1E7G	A566	2.75	1.72
1F5G	A567	2.00	1.11
1F7G	A568	2.00	1.11
1H4G	A569	1.00	.54
1H6G	A570	1.75	.95
1J6G	A571	1.35	.73
5U4G	A572	1.50	.81
5V4G	A282	2.00	1.11
5X4G	A283	1.50	.81
5Y3G	A284	1.00	.54
5Y4G	A573	1.00	.54
6A8G	A285	1.50	.81
6C5G	A286	1.25	.68
6F5G	A287	1.25	.68
6F6G	A288	1.35	.73
6H6G	A289	1.25	.68
6J5G	A574	1.20	.65
6J7G	A290	1.50	.81
6K5G	A575	1.35	.73
6K6G	A576	1.35	.73
6K7G	A291	1.35	.73
6L6G	A577	2.25	1.38
6L7G	A292	1.75	.95
6N7G	A293	1.75	.95
6Q7G	A294	1.35	.73
6R7G	A295	1.35	.73
6X5G	A296	1.50	.81
25A6G	A297	1.50	.81
25B6G	A578	1.75	.95
25Z6G	A298	1.50	.81

TUBE TEST STICKERS

A roll of 2,000 perforated gummed labels, 1¼"x 1⅝". A valuable sales aid. Imprinted with your name, address and city; has space to mark date and tube condition. Print your name plainly on your order. Really helps you sell R.C.A. Radio Tubes.

A201. YOUR PRICE **$1.00**

FREE TUBE SALES AIDS

A202. DUMMY CARTONS. Exact replicas of R.C.A. tube cartons, for display purposes. 25 dummy cartons **free** with each order for R.C.A. tubes.

A203. DECALCOMANIA. 3 color window sign. **Free** with your order for R.C.A. tubes.

A204. PRICE CARDS. A handy reference card showing list prices of all R.C.A. tubes. Also shows interchangeable tube types. **Free** with order for R.C.A. tubes.

A205. O. K. TAGS. For completed repair jobs. 10 tags **free** with order for R.C.A. tubes.

RAYTHEON RADIO TUBES

Raytheon shows you the way to bigger tube profits. Handle this money-making line which offers you amazingly BIG DISCOUNTS and a powerful sales appeal. Raytheon tubes are noted for quality and have an outstanding reputation for long life, silent operation and brilliant tonal reproduction. For better results and for sure customer satisfaction and good-will, use Raytheon tubes as replacements. Backed by extensive advertising, RAYTHEON Tubes enjoy a tremendous consumer demand. In addition, they come packed in attractive factory-sealed cartons to protect your customers and to assure you of fresh new stock. There is a RAYTHEON tube for every set requirement. Stock this popular sales- and profit-building tube line. WE CARRY THE COMPLETE LINE OF RAYTHEON TUBES IN STOCK AT ALL TIMES.

SPECIAL DISCOUNTS

Buy RAYTHEON Tubes in quantities for big added profits. In lots of 25 or more, there is an additional discount of 10%. It will pay you to make up quantity orders for popular RAYTHEON tube types. RAYTHEON tubes are widely demanded; you are always sure of quick turnover; build your orders to 25 or more and earn the extra discount.

LOW PRICES • LIBERAL DISCOUNTS

ALL STANDARD GLASS TYPE TUBES

Type	No.	List	Net
00A	A300	2.00	1.05
01A	A301	.70	.35
1A4	A401	1.75	.90
1A6	A358	1.50	.77
1B4	A402	2.00	1.05
1B5	A436	1.25	.64
1C6	A359	1.75	.90
1F4	A497	1.50	.77
1F6	A498	2.00	1.05
1V	A303	1.10	.57
2A3	A360	2.25	1.31
2A5	A361	1.20	.62
2A6	A362	1.20	.62
2A7	A363	1.50	.77
2B7	A366	1.50	.77
2E5	A411	1.50	.77
5Z3	A371	1.00	.51
6A3	A403	2.00	1.05
6A4	A364	1.50	.77
6A6	A399	1.50	.77
6A7	A365	1.35	.69
6B5	A438	2.25	1.31
6B7	A367	1.50	.77
6C6	A368	1.20	.62
6D6	A369	1.20	.62
6E5	A404	1.50	.77

Type	No.	List	Net
6E6	A437	2.00	1.05
6F7	A370	1.75	.90
6G5	A412	1.50	.77
6N5	A499	1.75	.90
6Z4	A353	1.50	.77
12A5	A374	2.25	1.31
12A7	A398	2.00	1.05
12Z3	A372	1.10	.57
25Z5	A373	1.20	.62
10	A304	2.25	1.31
12A	A307	.90	.47
15	A302	2.00	1.05
19	A308	1.20	.62
20	A309	2.00	1.05
22	A310	1.50	.77
24A	A311	1.00	.51
26	A312	.70	.35
27	A313	.80	.41
30	A314	.80	.41
31	A315	.90	.47
32	A316	1.50	.77
33	A317	1.25	.64
34	A318	1.50	.77

Type	No.	List	Net
35	A319	1.00	.51
36	A320	1.10	.57
37	A321	.90	.47
38	A322	1.10	.57
39	A323	1.10	.57
40	A324	1.00	.51
41	A325	1.10	.57
42	A326	1.20	.62
43	A327	1.20	.62
44	A323	1.10	.57
45	A329	.80	.41
46	A330	1.35	.69
47	A331	1.25	.64
48	A332	3.00	1.74
49	A333	1.20	.62
50	A334	2.25	1.31
51	A319	1.00	.51
52	A336	2.00	1.05
53	A337	1.50	.77
55	A338	1.25	.64
56	A339	.80	.41
57	A340	1.10	.57
58	A341	1.10	.57
59	A342	1.50	.77

Type	No.	List	Net
71A	A343	.80	.41
75	A344	1.10	.57
76	A345	.80	.41
77	A346	1.20	.62
78	A347	1.20	.62
79	A348	1.50	.77
80	A349	.70	.35
81	A350	2.00	1.05
82	A351	1.10	.57
83	A352	1.10	.57
83V	A394	2.00	1.05
84	A353	1.50	.77
85	A354	1.20	.62
89	A355	1.50	.77
V99	A356	1.50	.77
X99	A357	1.50	.77
950	A405	2.25	1.31
951	A402	2.00	1.05
WD11	A305	2.00	1.05
WX12	A306	2.00	1.05
BA	A396	7.50	4.50
BH	A395	4.65	2.79
BR	A397	2.75	1.65
LA	A364	1.50	.77

MERCHANDISING AIDS TO INCREASE YOUR TUBE PROFITS

Raytheon offers you, through ALLIED, some of the finest merchandising aids ever produced to promote the sale of tubes. These consist of attractive, new attention-arresting window displays, dummy cartons for display purposes, booklets containing valuable information, quick reference price cards showing interchangeable tube types, repair tickets, etc. Get these sales-stimulating helps, and put them to work selling tubes for you. They were all designed for just that purpose.

RAYTHEON HELPS YOU SELL

Raytheon's tremendous national advertising will increase the present great demand for Raytheon tubes. The merchandising aids on these pages permit you to tie-in for more profit. As a further "sales stimulator" we will put you on the Raytheon mailing list. This will bring you timely window streamers for important events such as football games, holidays, etc. It will pay you to "push" the fast-selling profit-building Raytheon line. With your next tube order, ask for the helpful Raytheon Sales Aids shown on this and the next page.

NEW WINDOW DISPLAYS

An unusually attractive blackboard window display measuring a full 2 feet wide by 2½ feet high. Has ample space for your "specials" or messages. A great "attention-getter."

FREE. 540. With order for Raytheon tubes.

A LIVE DISPLAY

A good-looking window display which identifies you as a Raytheon dealer. Enables you to get your share of profits from Raytheon's tremendous national advertising. Shows Serviceman testing tubes. Has sign reading: "Dependable Service Work." Size, 2 feet wide by 2½ feet high.

A541

FREE. With tube order.

RAYTHEON TUBE TALKS

This book was carefully prepared by the Raytheon sales engineers to stimulate YOUR tube sales. Contains 46 pages which tell you just how to merchandise tubes, where to look for business and how to get it. The book is clearly written on high-grade paper and bound in a stiff fibre cover with aluminum spiral back. Also contains the tube complement for practically every radio receiver. Really will help you sell Raytheon tubes because it reflects the best selling experience of thousands of radio dealers. A helpful book that will pay for itself many times over.

A542. NET.....50c

DEALER PRICE CARDS

Latest handy reference dealer price list card for all Raytheon tubes. Shows Interchangeable tube Types. Indicates popular replacement types. Given Free with order for Raytheon tubes.

A408. **FREE.**

METAL TYPE TUBES

RAYTHEON offers a complete line of the new all-metal tubes. Made entirely of metal; self-shielded and sturdy. With octal base and special stud which makes insertion of tube into socket very easy. Not directly interchangeable with conventional glass tube types. We stock all types.

Type	No.	List	Net	Type	No.	List	Net
0Z4	A490	1.50	.77	6K7	A446	1.35	.69
5W4	A449	1.00	.51	6L6	A439	2.25	1.31
5Z4	A448	2.00	1.05	6L7	A447	1.75	.90
6A8	A440	1.50	.77	6N7	A429	1.75	.90
6B8	A488	1.75	.90	6Q7	A491	1.35	.69
6C5	A441	1.25	.64	6R7	A492	1.35	.69
6F5	A442	1.25	.64	6X5	A493	1.50	.77
6F6	A443	1.35	.69	25A6	A494	1.50	.77
6H6	A444	1.25	.65	25L6	A489	2.25	1.31
6J7	A445	1.50	.77	25Z6	A495	1.50	.77

SPECIAL MAJESTIC SHIELDED TUBES

Type	No.	List	Net	Type	No.	List	Net
24S	A375	1.50	.77	2A7S	A385	2.30	1.33
27S	A376	1.10	.57	2B7S	A536	2.30	1.33
35S	A377	1.50	.77	6A7S	A386	2.30	1.33
51S	A377	1.50	.77	6B7S	A387	2.30	1.33
55S	A378	1.75	.90	6C7	A389	2.00	1.05
56AS	A535	1.35	.69	6D7	A390	2.00	1.05
56S	A379	1.35	.69	6E7	A391	2.00	1.05
57S	A380	1.75	.90	6F7S	A388	2.00	1.05
57AS	A381	1.75	.90	6Y5	A392	2.00	1.05
58S	A382	1.75	.90	2S-4S	A430	2.75	1.65
58AS	A383	1.75	.90	2Z2-G84	A431	2.00	1.05
75S	A435	1.75	.90	6Z5	A432	2.00	1.05
85AS	A384	1.75	.90				

OCTAL GLASS TUBES

Identical in electrical characteristics and pin connections to the new all-metal tubes, but made in glass. Positively interchangeable with all metal tubes having corresponding type numbers (except that the 5Y3 is a counterpart of the 5Z4). We stock all Octal Glass Tube types constantly.

Type	No.	List	Net	Type	No.	List	Net
0Z4G	A476	1.50	.77	6H6G	A470	1.25	.64
1C7G	A500	2.00	1.05	6J5G	A514	1.20	.62
1D5G	A501	2.00	1.05	6J7G	A471	1.50	.77
1D7G	A502	1.75	.90	6K5G	A515	1.35	.69
1E5G	A503	2.00	1.05	6K6G	A516	1.35	.69
1E7G	A504	2.75	1.65	6K7G	A472	1.35	.69
1F5G	A505	2.00	1.05	6L5G	A481	2.25	1.31
1F7G	A477	2.00	1.05	6L6G	A517	2.25	1.31
1G5G	A529	2.00	1.05	6L7G	A474	1.75	.90
1H4G	A506	1.00	.51	6N6G	A518	2.25	1.31
1H6G	A507	1.75	.90	6N6MG	A519	2.50	1.50
1J6G	A508	1.35	.69	6N7G	A520	1.75	.90
5U4G	A478	1.50	.77	6P7G	A521	2.25	1.31
5V4G	A509	2.00	1.05	6Q6G	A482	2.25	1.31
5X4G	A510	1.50	.77	6Q7G	A522	1.35	.69
5Y3G	A467	1.00	.51	6R7G	A523	1.35	.69
5Y4G	A511	1.00	.51	6S7G	A483	2.25	1.31
6A8G	A465	1.50	.77	6T7G	A484	2.25	1.31
6B4G	A512	2.00	1.05	6U7G	A485	1.35	.69
6B6G	A513	1.35	.69	6V6G	A486	1.75	.90
6B8G	A479	1.75	.90	6V7G	A487	1.35	.69
6C5G	A468	1.25	.64	6X5G	A524	1.50	.77
6D8G	A480	2.25	1.31	25A6G	A525	1.50	.77
6F5G	A473	1.25	.64	25A7G	A469	2.25	1.31
6F6G	A466	1.35	.69	25B6G	A528	1.75	.90
				25Z6G	A526	1.50	.77

NEW RAYTHEON TUBE STICKERS

The new Raytheon tube stickers for glass tubes, have spaces for noting "Date Sold," "Date Tested," condition of tube, "Satisfactory," or "Unsatisfactory"—and space for your name. A pad of 100 is given free with your order for Raytheon tubes. (Available in pads of 2000 with your name imprinted at $1.00.)

A543. Pad of 100 with tube order. FREE.

METAL TUBE STICKERS

An attractive Raytheon tube sticker for metal tubes. Like the above sticker it has spaces for noting "Date Sold," "Date Tested," condition of tube—and space for your name. A roll of 100 comes to you free with your order for Raytheon tubes. (Pads of 2000 tube stickers with your name imprinted are available at $1.00 per pad. Print your name plainly on order.

A544. Pad of 100 with tube order. FREE.

REPAIR TICKETS

Consists of combination repair ticket and receipt. Contains space for name, address, phone number, make and model of receiver. Perforated; one end is attached to set or chassis taken in for repairs, and detachable end is given to customer as receipt.

A545. FREE. 50 Repair Tickets, with tube order.

GUARANTEE BLANKS

Consists of a "90 Day Radio Repair and Service Guarantee." Has space for complete description of services performed: condition of tubes, transformers, condensers, cables, connections, wiring, etc.; and charges for parts and labor. A real business-like service card that instills confidence in the customer.

A546. FREE. 50 Guarantee Blanks, with tube order.

TECHNICAL DATA CHART

Latest edition; invaluable to every dealer and serviceman; contains complete, up-to-the-minute technical data on all Raytheon receiving tubes; new base design diagrams, and complete tube characteristics. Conveniently arranged for quick reference. We offer this chart free with your order for Raytheon tubes.

A407. FREE.

DUMMY CARTONS

For display purposes only. Exact replicas of the standard Raytheon tube cartons. These attractive cartons can be used for an arresting, sales stimulating display. We offer 12 dummy cartons free with your order for Raytheon tubes.

A547. FREE.

Ken-Rad
RADIO TUBES

Type	No.	List	NET
1A4	A798	$1.75	$0.90
1A6	A758	1.50	.77
1B4	A797	2.00	1.03
1B5/25S	A774	1.25	.64
1C6	A759	1.75	.90
1F4	A807	1.50	.77
1F6	A808	2.00	1.03
2A3	A760	2.25	1.31
2A5	A761	1.20	.62
2A6	A762	1.20	.62
2A7	A763	1.50	.77
2B7	A766	1.50	.77
5Z3	A771	1.00	.51
6A3	A789	2.00	1.03
6A4	A764	1.50	.77
6A6	A799	1.50	.77
6A7	A765	1.35	.69
6B5	A790	2.25	1.31
6B7	A767	1.50	.77
6C6	A768	1.20	.62
6C7	A842	2.00	1.03
6D6	A769	1.20	.62
6D7	A843	2.00	1.03
6E5	A791	1.50	.77
6E6	A792	2.00	1.03
6E7	A844	2.00	1.03
6F7	A770	1.75	.90
6G5	A809	1.50	.77
6N5	A845	1.75	.90
6Y5	A846	2.00	1.03
6Z5	A847	2.00	1.03
12A5	A788	2.25	1.31
12A7	A793	2.00	1.03
12Z3	A772	1.10	.57
25Z5	A773	1.20	.62
01A	A701	.70	.35
1V	A703	1.10	.57
10	A704	2.25	1.31
12A	A707	.90	.46
15	A705	2.00	1.03
19	A708	1.20	.62
20	A709	2.00	1.03
22	A710	1.50	.77

In the radio tube field, the name KEN-RAD is synonymous with dependable long life, unusual sturdiness, brilliant tone quality and full value. These uniformly dependable tubes are offered in a complete selection of glass types, metal types and metal-glass types—to meet every radio tube need. Each KEN-RAD tube is supplied in an attractive factory-sealed carton to assure your customer of brand new merchandise in the same perfect condition as when it left the factory. We carry the complete line of KEN-RAD Tubes in stock at all times.

EXTRA DISCOUNTS

It will pay you to buy KEN-RAD tubes in quantities for added profits. In lots of 25 or more, we offer an additional discount of 10%. Combine your orders to make up this quantity and earn bigger profits.

Type	No.	List	NET
24A	A711	$1.00	$0.51
26	A712	.70	.35
27	A713	.80	.41
30	A714	.80	.41
31	A715	.90	.46
32	A716	1.50	.77
33	A717	1.25	.64
34	A718	1.50	.77
35/51	A719	1.00	.51
36	A720	1.10	.57
37	A721	.90	.46
38	A722	1.10	.57
39/44	A723	1.10	.57
41	A725	1.10	.57
42	A726	1.20	.62
43	A727	1.20	.62
45	A729	.80	.41
46	A730	1.35	.69
47	A731	1.25	.64
48	A732	3.00	1.74
50	A734	2.25	1.31
53	A737	1.50	.77
55	A738	1.25	.64
56	A739	.80	.41
57	A740	1.10	.57
58	A741	1.10	.57
59	A742	1.50	.77
71A	A743	.80	.41
75	A744	1.10	.57
76	A745	.80	.41

Type	No.	List	NET
77	A746	$1.20	$0.62
78	A747	1.20	.62
79	A748	1.50	.77
80	A749	.70	.35
81	A750	2.00	1.03
82	A751	1.10	.57
83	A752	1.10	.57

OCTAL GLASS TYPES

Type	No.	List	NET
5Y3	A810	$1.00	$0.51
6A8G	A811	1.50	.77
6B8G	A832	1.75	.90
6C5G	A812	1.25	.64
6F5G	A813	1.25	.64
6F6G	A814	1.35	.69
6H6G	A815	1.25	.64
6J7G	A816	1.50	.77
6K7G	A817	1.35	.69
6L6G	A819	2.25	1.31
6L7G	A818	1.75	.90
6N6G	A825	2.25	1.31
6N7G	A826	1.75	.90
6Q7G	A827	$1.35	$0.69
6R7G	A828	1.35	.69
6X5G	A829	1.50	.77
25A6G	A830	1.50	.77
25B6G	A834	1.75	.90
25Z6G	A831	1.50	.77

Type	No.	List	NET
83V	A794	2.00	1.03
84	A753	1.50	.77
85	A754	1.20	.62
89	A755	1.50	.77
V99	A756	1.50	.77
X99	A757	1.50	.77
950	A806	2.25	1.31

METAL TYPES

Type	No.	List	NET
5W4	A835	$1.00	$0.51
5Z4	A793	2.00	1.03
6A8	A775	1.50	.77
6B8	A838	1.75	.90
6C5	A776	1.25	.64
6F5	A777	1.25	.64
6F6	A778	1.35	.69
6H6	A779	1.25	.64
6J7	A780	1.50	.77
6K7	A781	1.35	.69
6L6	A836	2.25	1.31
6L7	A782	1.75	.90
6N7	A839	1.75	.90
6Q7	A784	1.35	.69
6R7	A837	1.35	.69
6X5	A785	1.50	.77
25A6	A786	1.50	.77
25L6	A840	2.25	1.31
25Z6	A787	1.50	.77

Knight RADIO TUBES

The popular KNIGHT line of radio tubes has been greatly enlarged to offer the most complete selection of glass type tubes as well as the latest new metal tubes. You can undersell all competition with this popular line of superior quality tubes. They are precision-built for steady, dependable performance. All KNIGHT Tubes are packed in factory-sealed cartons assuring perfect merchandise. Attractive, safety-first packaging, dependable quality and low price will give you big volume-building sales. KNIGHT Tubes are priced to bring you 10% to 15% BIGGER PROFITS! Put in a stock of popular types and build real profits. We carry the complete line of Knight Tubes in stock at all times.

Type	No.	List	NET
1A4	A959	$1.75	$0.81
1A6	A958	1.50	.69
1F4	A935	1.50	.69
1F6	A936	2.00	.93
2A3	A960	2.25	1.18
2A5	A961	1.20	.56
2A6	A962	1.20	.56
2A7	A963	1.50	.69
2B7	A966	1.50	.69
5Z3	A971	1.00	.46
6A4	A964	1.50	.69
6A7	A965	1.35	.62
6B7	A967	1.50	.69
6C6	A968	1.20	.56
6D6	A969	1.20	.56
6E5	A898	1.50	.69
6E6	A899	2.00	.93
6F7	A970	1.75	.81
6Z4	A953	1.50	.69
12A5	A988	2.25	1.18
12Z3	A972	1.10	.51
25Z5	A973	1.20	.56
01A	A901	.70	.31
1V	A903	1.10	.51
10	A904	2.25	1.18
12A	A907	.90	.42
15	A906	2.00	.93
19	A908	1.20	.56
20	A909	2.00	.93
22	A910	1.50	.69

METAL TYPES

Type	No.	List	NET
5W4	A974	$1.00	$0.46
5Z4	A983	2.00	.93
6A8	A975	1.50	.69
6C5	A976	1.25	.58
6F5	A977	1.25	.58
6F6	A978	1.35	.62
6H6	A979	1.25	.58
6J7	A980	1.50	.69
6K7	A981	1.35	.62
6L6	A984	2.25	1.18
6L7	A982	1.75	.81
6N7	A985	1.75	.81
6R7	A986	1.35	.62
6X5	A987	1.50	.69
25A6	A989	1.50	.69
25Z6	A999	1.50	.69

Type	No.	List	NET
24A	A911	$1.00	$0.46
26	A912	.70	.31
27	A913	.80	.37
30	A914	.80	.37
31	A915	.90	.42
32	A916	1.50	.69
33	A917	1.25	.58
34	A918	1.50	.69
35/51	A919	1.00	.46
36	A920	1.10	.51
37	A921	.90	.42
38	A922	1.10	.51
39/44	A923	1.10	.51
41	A925	1.10	.51
42	A926	1.20	.56
43	A927	1.20	.56
45	A929	.80	.37
46	A930	1.35	.62
47	A931	1.25	.58
48	A932	3.00	1.57
49	A933	1.20	.56
50	A934	2.25	1.18
53	A937	1.50	.69
55	A938	1.25	.58
56	A939	.80	.37
57	A940	1.10	.51
58	A941	1.10	.51
59	A942	1.50	.69
71A	A943	.80	.37
75	A944	1.10	.51

Type	No.	List	NET
76	A945	$0.80	$0.37
77	A946	1.20	.56
78	A947	1.20	.56
79	A948	1.50	.69
80	A949	.70	.31
81	A950	2.00	.93
82	A951	1.10	.51
83	A952	1.10	.51
84	A953	1.50	.69
85	A954	1.20	.56
89	A955	1.50	.69
V99	A956	1.50	.69
X99	A957	1.50	.69

TRIAD POWER TUBES

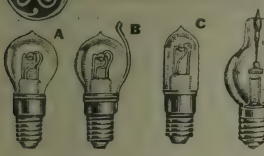
2B6 — No. A800. List. $2.50. YOUR PRICE..... **$1.25**

6B5 — No. A803. List. $2.25. YOUR PRICE..... **$1.18**

25B5 — No. A801. List. $2.25. YOUR PRICE **$1.18**

RECTIFIERS • SPECIAL TUBES • BULBS

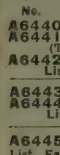
GENUINE G.E. TUNGAR BULBS



The well-known, highly efficient G.E. Tungar Bulbs. Used in many standard chargers. Will replace Rectigon bulbs of the same rating. Shpg. wt., 2 lbs.

No.	Type	Fig.	NET EACH
A6440	2 Amp.	A	$2.94
A6441	2 Amp. (Top Connection)	B	
A6442	.6 Amp.	C	
	List, Each, $4.00.		
A6443	5 Amp.	D	$4.41
A6444	6 Amp.	D	
	List, Each, $6.00.		
A6445	15 Amp.	D	$8.82
	List, Each, $12.00		

NEW AMPERITE VOLTAGE REGULATORS FOR BATTERY SETS



Replacement voltage regulator tubes for many popular battery operated radio sets.

A1095. Type 5E1 (1A1*). For Bosch 042, Erla 660, Sparton 81, 82.

A1096. Type 6-1 (1J1*). For Sentinel 7700, Erla 7700.

NET EACH **94c**

(*Indicates new RMA type number.)

We can supply all Amperite voltage regulators for battery sets. Specify type number and send deposit with order.

DRY RECTIFIERS

ELKON 16C3B

Replaces old M16 and XB16 rectifiers. For these "A" units: Majestic, Elkon, Tobe, Brach, Philco, Sentinel, Knapp, Greene-Brown, Fada, Webster, Metro, etc.

A6300. List, $7.00. NET **$4.12**

BL DRY DISC-TYPE B-12

Standard replacement rectifiers for the following "A" units and chargers: Knight 2-rate; King; Sterling R-32; Universal; France; Gen'l. Inst.; Acme; Galvin; Valley MB; TCA 646; Arco, etc. Wt., 2 lbs.

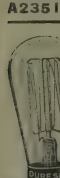
A2350. List, $4.00. NET **$2.35**

TYPE B-16

For use in Valley "A", Webster, Tobe, Norden-Hauck, etc. Wt., 2 lbs.

A2351. NET **$2.94**

DURESITE VOLTAGE REGULATOR TUBES



Ballast type voltage control tube. Efficient and accurate. Original equipment on many standard sets.

A1064. TYPE 110. For use with:
Brunswick 814, 821, 831 (60 cycle), 14, 21, 31 (25 cycle).
Bremer-Tully 81, 82 (25 cycle), 83, 84 (60 cycle).
Grebe 21950, 270C, 285, 450.
Hammarlund HiQ 30.
National.

A1065. TYPE 105. For use with:
Brunswick 14, 21, 31 (60 cycle).
Bremer-Tully 81, 82 (60 cycle).
List, $3.00. NET EACH **$1.65**

We can supply any Duresite made. Write for prices. Depend on ALLIED for everything in radio. Write us on any special need.

KENRAD 6 & 12 VOLT LIGHT BULBS

G.E. licensed light bulbs of superior construction. Designed for 6 Volt storage battery operation. Ideal for farm lighting, camps, lodges, house-trailers, auto trouble lamps, etc. Wind-charger or Knight Run-power units (pages 140-141) may be used to keep battery charged. Makes possible efficient and economical lighting systems. These fine bulbs give excellent light and have long life.

No.	Watts	Drain	EACH
6 VOLT LAMPS			
A795	15	2.5 Amp.	30c
A796	25	4.2 Amp.	
A820	50	8.5 Amp.	40c
12 VOLT LAMPS			
A821	15	1.3 Amp.	30c
A822	25	2.1 Amp.	
A823	50	4.2 Amp.	40c

WRITE FOR QUANTITY PRICES IN STANDARD CARTON AND CASE LOTS.

GENUINE SPARTON RADIO TUBES

For use in the older model Sparton sets using 3 volt tubes, for which no other types may be substituted. These type tubes are in popular demand. Carry a stock of the types listed below. There's rapid turnover and good profits in them.

TYPE 485

A1055. 485. Amp.-Det. Replaces type 484. List, $2.00. NET..... **$1.37**

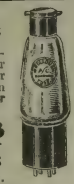
TYPE 483

A1056. 483. Power-Amp. Replaces type 183. List, $2.00. NET..... **$1.37**

TYPE 482-B

A1057. 482-B. Power-Amp. Replaces type 182-B. List, $2.00. NET..... **$1.37**

GENUINE KELLOGG TYPE 401 A.C. TUBES



The original Kellogg A.C. detector-amplifier tubes, noted for superior construction and long life. Heater Volts, 3. Heater Amps., 1. Maximum plate volts, 150. **For use as amplifier or detector.**

A1060. List, $4.00. YOUR PRICE **$2.33**

TYPE 403 A.C. TUBES

For use in the last audio stage. Heater Volts, 3. Heater Amps., 1.5. Plate Volts (Max.), 180. Grid Volts (negative), 40.

A1061. List, $5.00. YOUR PRICE **$2.94**

KNIGHT RESISTANCE TUBES FOR AC-DC SETS

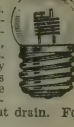
New glass tubes for use as filament-dropping resistors in A.C.-D.C. midget sets. The 185 ohm series is for use with two 25 Volt and two 6.3 Volt tubes; the 162 ohm tubes are for two 25 Volt and three 6.3 Volt tubes; the 141 ohm series is for two 25 Volt and four 6.3 Volt tubes. Have standard 4 prong bases. Some are tapped for 1 or 2 pilot lights. Designed for sets drawing 0.3 ampere filament current.

No.	Ohms	Voltage Drop	Pilot Lights*	NET Each
A990	185	54.9	None	33c
A991	162	48.6	None	
A992	141	42.3	None	
A993	185	54.9	1	
A994	162	48.6	1	
A995	141	42.3	1	
A996	185	54.9	2	
A997	162	48.6	2	
A998	141	42.3	2	

*Pilot lights must be No. 40 brown bead type, 6.3 volts.

FREE—Knight Glass and Metal Resistance Tube General Specifications Chart sent on request. Contains complete list of Resistance Tubes to help you find the right replacement.

NEON GLOW LAMPS



Genuine G.E. neon gas lamps. Useful in many types of test equipment. Serve as short or leakage indicators, stroboscope illuminators, etc.; will fill many other purposes. Both electrodes glow on A.C.; only negative glows on D.C. These lamps are also ideal for use in the home for night lights, pilot lights for electrical circuits, etc. Very low current drain. For 105-120 volt operation.

Standard Edison Base

A6450. 2 WATT. ½ C.P., .020 Amp. Pear shape. 1¾ in. dia. Split-disc electrode. YOUR PRICE, EACH **45c**

A6451. 1 WATT. .1 C.P., .010 Amp. Round 1¼ in. dia. Spiral electrode.

A6452. 0.5 WATT. .05 C.P., .005 Amp. Round 1¼ in. dia. For A.C. only. Split cylinder electrode. YOUR PRICE, EACH **36c**

Candelabra Base

A6454. .25 WATT. Pear shape, clear bulb, for tube testers. 9/16" dia. Split-cone electrode. YOUR PRICE, EACH **36c**

A6455. .5 WATT. Round bulb. 1¼ in. dia. .05 C.P. only. Split cylinder electrode.

A6456. 1 WATT. Round bulb. 1¼ in. dia. .1 C.P. Spiral electrode. YOUR PRICE, EACH **41c**

PORCELAIN SOCKETS

For neon lamps. Highest quality porcelain construction. Screw terminals for easy connection. For Edison and Candelabra bases.

A6459. Edison Base. Cleat mounting type. NET EACH **10c**

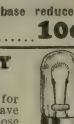
A6460. Edison Base. Sub-panel mounting. NET EACH **16c**

A6461. Candelabra Base. Sub-panel mounting. NET EACH **28c**

A1877. Candelabra Base Plug. Candelabra socket with plug base to fit standard receptacle. NET EACH **10c**

A1878. Edison to candelabra base reducer. Adapts candelabra base bulbs to standard sockets. NET EACH **10c**

GENUINE EVEREADY MAZDA BULBS



Genuine Eveready Mazda bulbs for radio and flash-light use. All have miniature screw base except those marked*. All popular types listed below at attractive quantity prices.

RADIO PILOT LIGHT BULBS

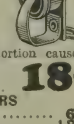
Stock No.	Lamp No.	Volts	Amps.	PRICE EACH	PER 10
A1250	41	2.5	.50	$0.09	$0.54
A1215	43*	2.5	.50	.10	.60
A1251	42	3.2	.35	.12	.72
A1253	40	6.3	.15	.09	.54
A1216	51*	6-8	1.0	.07	.42
A1254	Spec.	2.0	.06	.20	1.20
A1217	Spec.*	2.0	.06	.22	1.32
A1255	44*	6.3	.25	.09	.54
A1256	46	6.3	.25	.09	.54

*Indicates miniature bayonet base.

FOR FLASHLIGHTS

Stock No.	Lamp No.	Cell	Volts	Amp.	Price Each	Box of 10
A1220	223	2	2.2	0.25	$0.09	54c
A1221	233	2	2.3	0.27	.09	54c
A1222	13	3	3.8	0.30	.09	54c
A1223	14	2	2.5	0.30	.09	54c
A1224	31	5	6.2	0.30	.11	66c
A1225	136	1	1.25	0.60	.10	60c
A1226	248	2	2.4	0.80	.11	66c

MALLORY BIAS CELL



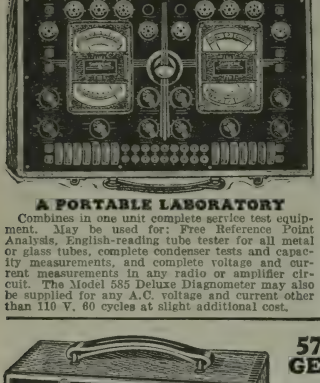
Designed to furnish initial bias for RF, IF and AVC tubes. Size, only 1 1/32" x 5/8". Noiseless; non-reactive at audio frequencies. Provides a no-current potential of 1 Volt ± 10%. Cells may be used in series for higher bias voltage. These cells greatly eliminate distortion caused by conventional bias arrangements.

A3379. YOUR PRICE **18c**

BIAS CELL HOLDERS

A3387. For one cell. NET..... 6c
A3388. For two cells. NET..... 12c
A3389. For three cells. NET..... 15c
A3390. For four cells. NET..... 21c

New SUPREME



SUPREME 585 DELUXE DIAGNOMETER

- Complete professional service equipment in one compact unit.
- Complete analysis of all metal or glass type tubes.
- New double-view Quadrimeters with bi-indicating needles.
- New exclusive Supreme free reference point system of circuit analysis.

An entirely new and advanced professional service test instrument. Makes all types of service tests, quickly and accurately. Unparalleled for completeness, automatic speed and flexibility. Checks all circuits and components, as well as every type of metal or glass tube. All measurements of voltage, current, etc., as well as tube tests are read directly from two sensitive D'Arsonval meters with multiple scales. New Quadrimeters have bi-indicating needles and double-view windows for quick accurate readings. Multi-gang multi-point switches allow instantaneous selection of any desired meter range. Meters are accurately calibrated to read as follows: D.C. volts, 0-7-35-140-350-700-1400; A.C. volts, 0-7-35-140-350-700-1400; D.C. current, 0-7-35-140-350-700-1400 M.A.; and 0-14 Amperes; capacity, 0-.07-.35-1.4-3.5-7.0-14.0 mfds.; resistance, 0-2,000-20,000-200,000-2,000,000-20,000,000 ohms, with additional low reading scale of 0-200 ohms; decibels, —10 to +6, 0 to +16, +10 to +26, +20 to +36, +30 to +46.

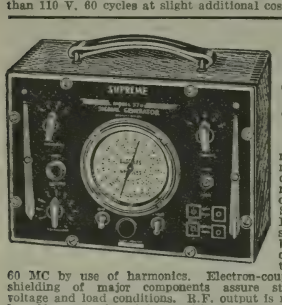
FORTY-TWO FUNCTIONS AND RANGES

All tube tests are made with direct English-reading colored meter scales; GOOD-BAD scales are also used to indicate electrolytic condenser leakage. Capacity scales measure any paper, electrolytic, or mica condenser. Measurements of A.C. voltage are made on evenly-spaced A.C. scales permitting extremely accurate readings. Exclusive new Supreme Free Reference Point system of analysis is used for testing radio circuits, taking care of the requirements of all octal or standard base tubes. Supreme's new Uni-Construction permits using a minimum of parts for a maximum of test circuits. Tube testing circuits incorporate a balance ratio between tube and circuit resistance values; meter indications drop in direct proportion to tube depreciation. The new Model 585 Diagnometer is supplied in a handsome oak-finished case with leather carrying handle and removable hinged cover. Size 22⅝x18x7" overall. Complete accessories, instructions and charts are furnished. For 110 Volts, 60 cycles, A.C.

A10250. YOUR NET PRICE..... $95.00

A PORTABLE LABORATORY

Combines in one unit complete service test equipment. May be used for: Free Reference Point Analysis, English-reading tube tester for all metal or glass tubes, complete condenser tests and capacity measurements, and complete voltage and current measurements in any radio or amplifier circuit. The Model 585 Deluxe Diagnometer may also be supplied for any A.C. voltage and current other than 110 V. 60 cycles at slight additional cost.



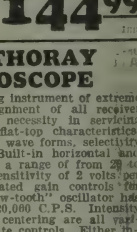
570 SIGNAL GENERATOR

- Complete frequency range, 90 KC to 60 MC.
- Direct-reading full vision airplane type dial.

Operation is simple and permits accurate alignment of modern complex receiver circuits. Has complete frequency range from 90 KC to 60 MC covering all popular standard Short Wave, Broadcast and Intermediate frequencies in seven frequency bands. Five bands cover 90 KC to 20 MC on fundamentals; two additional bands extend range to 60 MC by use of harmonics. Electron-coupled oscillator and complete shielding of major components assure stability under varying line voltage and load conditions. R.F. output is modulated 30% at 400 c.p.s. by self-contained modulator; either modulated or unmodulated output may be used and provisions are also made for use of an external modulator if desired. Ladder type attenuator with graduated control for gauging approximate micro-volt output. 400 cycle audio signal available for audio tests by means of tip-jacks. Completely shielded and filtered. Tip-jacks make possible the introduction of a frequency modulated signal from external source to aid in visual alignment when used with oscilloscope equipment. Housed in a strong portable metal case with leather carrying handle. Size 10½x8½x5" overall. For 110 Volts, 50/60 cycles A.C.

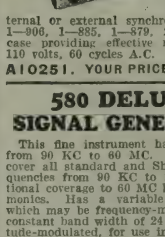
A10256. YOUR NET PRICE..... $31.30

555 DIAGNOMOSCOPE



This instrument is a combination of the 545 Cathoray Oscilloscope and the 580 Deluxe Signal Generator. Built-in dual-purpose direct reading signal generator provides fundamental frequencies of from 90 KC to 20MC with harmonics extending up to 60 MC. R.F. output of signal generator can be modulated 30% at 400 cycles, or used as unmodulated signal if necessary. Carrier can be frequency-modulated with a constant band width of 24 KC or amplitude-modulated for accurate visual alignment of IF and auxiliary circuits. Wave forms, transients, A.C. voltages, voltage gain, audio and harmonic distortion, percentage modulation, etc., may be measured accurately by means of patterns projected on the cathode ray screen. Horizontal and vertical amplifier range of 20 to 90,000 C.P.S. with graduated gain controls. Separate controls are provided for centering, focusing, and intensity of image. "Saw-Tooth" oscillator has a range of 7 to 20,000 C.P.S. Uses 10 tubes, as follows: 1—906, 1—885, 1—879, 2—57, 1—6A7, 1—6F7, 1—76, 1—84, and 1—80. Completely housed in metal cabinet. Size 16"x24"x24" overall. Supplied with RCA tubes. For 110 V. 60 cycle A.C.

A10253. YOUR PRICE..... $144.99



545 CATHORAY OSCILLOSCOPE

A new visual servicing instrument of extreme value for accurate alignment of all receiver circuits. An absolute necessity in servicing modern circuits with flat-top characteristics, for studying transients, wave forms, selectivity and audio response. Built-in horizontal and vertical amplifiers have a range of from 20 to 90,000 C.P.S. with a sensitivity of 2 volts per inch deflection; graduated gain controls for comparative tests. "Saw-tooth" oscillator has a range of from 7 to 20,000 C.P.S. Intensity of pattern, focus, and centering are all variable by means of separate controls. Either internal or external synchronizing voltage may be used. Tubes used are 1—906, 1—885, 1—879, 2—57, and 1—80. Housed in protective steel case provides effective magnetic shielding. For 110 volts, 60 cycles A.C. With R.C.A. tubes.

A10251. YOUR PRICE..... $91.09

510 FOUNDATION KIT

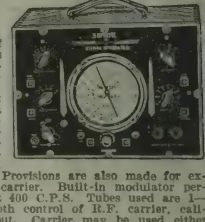
A modern efficient Volt-Ohm-Milliameter in complete kit form. Easily assembled and indispensable to the Serviceman, Experimenter or Amateur. The new Supreme Quadrimeter included employs a Bi-indicating or double pointer, centrally balanced and driven by a hi-torque 1 MA movement with a sensitivity of 1000 ohms per volt. Dual view windows each have a full scale length of 3¾ inches, and may be indirectly illuminated by dial lights if desired. Easy-to-read scales are evenly spaced and clearly marked; sword-point needles permit accurate readings even in poor light. Meter measures 5¼x7¼ inches with removable dustproof bakelite cover.

TWENTY-SEVEN RANGES

The complete kit contains all essential parts for ranges as follows: 0-7-35-140-350-700-1400 volts A.C.; 0-7-35-140-350-700-1400 volts D.C.; 0-7-35-140-350-700-1400, M.A. D.C. and 0-2,000-20,000-200,000 ohms. Can be built up as a portable Volt-Ohm-Milliameter, or used to supplement or modernize existing test equipment. The kit consists of 1 New Supreme Quadrimeter, 1 Meter adjustment resistor, 9 metallized resistors for voltage and resistance ranges, 6 metallized resistors with 6 matching capacitors attached, 1 zero reset potentiometer, 1 A.C. rectifier and all necessary switches. Complete with diagram for proper assembly.

A10257. YOUR NET PRICE..... $17.59

580 DELUXE SIGNAL GENERATOR



This fine instrument has a range of from 90 KC to 60 MC. Fundamentals cover all standard and Short-Wave frequencies from 90 KC to 20 MC; additional coverage to 60 MC by use of harmonics. Has a variable R.F. output which may be frequency-modulated at a constant band width of 24 KC or amplitude-modulated, for use in visual alignment of circuits by means of an oscilloscope. Built-in beat oscillator is accurately calibrated from 50 to 10,000 C.P.S. with less than 3% harmonic content. Provisions are also made for external amplitude modulation of R.F. carrier. Built-in modulator permits 30% modulation of the carrier at 400 C.P.S. Tubes used are 1—6A7, 1—6F7, 1—76, and 1—84. Smooth control of R.F. carrier, calibrated to approximate micro-volt output. Carrier may be used either modulated or unmodulated; 400 cycle audio signal available for test purposes by means of pin jacks. Size, 14x10⅝x6¾" overall. Complete with tubes, accessories and full operating instructions. For 110 volt, 60 cycle A.C.

A10252. YOUR PRICE..... $53.85

NEW TIME PAYMENT PLAN

Now you can own the latest Supreme Test equipment on a Pay-as-you-earn basis. Supreme offers through ALLIED an attractive time payment plan which enables you to purchase this fine service equipment with only a moderate down payment. Monthly payments can be met by increased profit gained through the use of modern servicing instruments. Write for complete details.

TEST EQUIPMENT

550 DELUXE RADIO TESTER

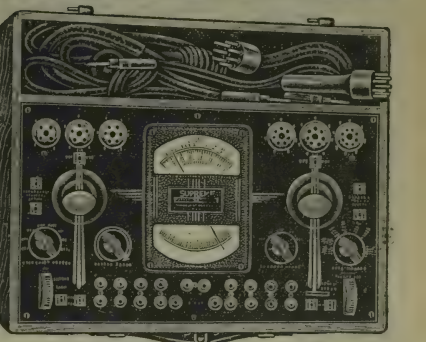
- 29 Meter ranges for all voltage and current measurements.
- Free reference point analysis of all radio circuits.
- 5 accurate DB ranges—5 resistance ranges with zero adjustment.
- Electrostatic leakage test for condensers, with meter indication.

This new Supreme test instrument is a combination set analyzer and point-to-point tester. Provides complete circuit analysis of resistance, voltage and current as well as tube tests directly from tube sockets in set. Tests all metal and glass tubes. New Supreme 5¾x7¼" Quadrimeter has dual windows and scales with actual length of 3¾". Scales are indirectly lighted from rear, making accurate readings possible under any lighting condition. Multi-contact switches make any of the 29 meter ranges instantly available; provides for complete and accurate analysis of the circuit under test. Has self-contained power supply for 110 volt 60 cycle operation.

PROVIDES COMPLETE CIRCUIT ANALYSIS

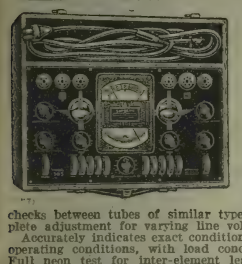
All meter ranges including resistance and output measurements are applied through the analyzer cable making it unnecessary to remove the chassis from the cabinet. The following direct-reading scales are incorporated in the Supreme 550 Deluxe Analyzer: 0-7-35-140-350-700-1400 V. A.C. and D.C.—at 1000 ohms per volt; 0-7-35-140-350-700-1400 M.A. D.C.; 0-14 Amperes (external only); 0-2000-20,000-200,000 ohms and 0-2-20 megohms; —10 to +6, 0 to +16, +10 to +26, +20 to +35 and +30 to +46 DB. Leakage of electrolytic condensers reads directly on meter dial; makes electrostatic leakage test; all electrolytic condensers can be tested at rated working voltage. Supreme's famous Free Reference Point method of analysis enables complete checking of all circuit components. The Supreme Model 550 Deluxe Analyzer is supplied in a handsome oak case with removable hinged cover. Size 18⅝x14¼x7½" overall. Complete with test prods, cable and plugs, adapters, charts, and complete instructions. For 110 Volt 50/60 cycle A.C.

A10254. YOUR NET PRICE..... **$54.83**



CANNOT BECOME OBSOLETE

All current, voltage and resistance tests made with the Supreme Model 550 Deluxe Analyzer are fundamental and may be applied to any radio circuit; cannot become obsolete.

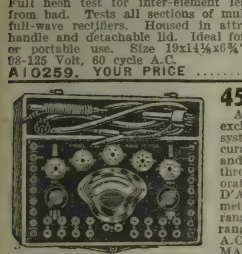


505 STANDARD TUBE TESTER

Here is a high quality tube tester which combines low cost with maximum flexibility and accuracy. Completely tests all metal and glass tubes in 6 sockets without adapters. All tubes tested under RMA rated loads. New Supreme Quadrimeter with Bi-indicating needles are indirectly illuminated through dual-view windows. Top meter scale has three sectors. "Good" "?" "Bad" for quality test to indicate emission loss; bottom scale divided into 100 divisions for close comparison checks between tubes of similar types. Built-in power supply has complete adjustment for varying line voltages.

Accurately indicates exact condition of any tube by testing under actual operating conditions, with load conditions conforming to RMA ratings. Full neon test for inter-element leakage quickly separates good tubes from bad. Tests all sections of multi-purpose tubes and both plates of full-wave rectifiers. Housed in attractive hardwood case with carrying handle and detachable lid. Ideal for either counter or portable use. Size 19x14½x6¾" overall. For 98-125 Volt, 60 cycle A.C.

A10259. YOUR PRICE **$46.99**



450 RADIO TESTER

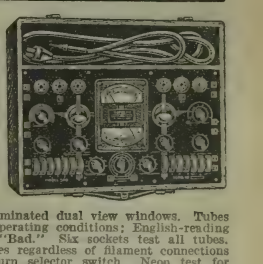
A complete radio tester using the exclusive Supreme Free Reference Point system of circuit analysis. Permits accurate measurement of voltage, current, and resistance directly from tube socket through analyzer cable and plug. Laboratory type 5" meter has sensitive D'Arsonval movement. Evenly spaced meter scales are easy to read on all ranges with maximum accuracy. Meter ranges are: 0-7-35-140-350-700-1400 volts A.C. or D.C.; 0-7-35-140-350-700-1400 MA. D.C.; 0-4,000-40,000-400,000 ohms. D.C. voltage ranges have a sensitivity of 1000 ohms per volt. All A.C. voltage ranges are available for output measurements without adapters. Circuit selector switch for rapid selection of desired meter range; zero reset provided for ohmmeter ranges. The Supreme Model 450 Tester represents an unusual value in high quality test equipment at a price that every Serviceman can afford. Housed in attractive hardwood carrying case, with removable lid. With accessories and instructions. Wt., 10 lbs.

A10261. YOUR NET PRICE..... **$34.25**

400 TUBE TESTER

A moderately priced tube tester that can be used for counter or portable applications. Tests all metal or glass tubes. English reading scale indicates whether tube is "Good" — "Questionable" — or "Bad." Complete test is also provided for inter-element tests and for tube leakage by the use of a circuit employing a sensitive neon glow lamp. A filament return selector switch and five sockets make all tests simply and with minimum of effort and time. Provision is made for matching tester to line voltage to insure proper potential at all times. The infallible "point to point" system of testing is also made available by the use of tip jacks and multi scale 5" meter. Meter ranges available are: 0-7-35-140-350-700-1400 Volts D.C. at 1000 ohms per volt; 0-7-35-140-350-700-1400 MA. D.C.; ohmmeter scales of 0-4,000-40,000-400,000 ohms. In hardwood carrying case with removable cover. Complete with accessories. For 110 V. 60 cycles A.C. Wt., 16 lbs.

A10262. NET **$38.17**



500 DELUXE TUBE TESTER

Designed to meet every requirement of present day tube testing. Not only will this versatile instrument test all types of metal or glass tubes, but also tests all types of condensers and provides a multi-purpose meter for additional circuit analysis. Meter ranges available are: 0-7-140-700-1400 volts A.C. and D.C.; 0-7-140-700-1400 MA. D.C.; 0-2,000-20,000-200,000 and 0-2-20 megohms; —6 to +6, 0 to +16 and +10 to +26 DB. The heart of the Supreme 500 Deluxe Tube Tester is the new Quadrimeter with indirectly illuminated dual view windows. Tubes are tested for quality under rated operating conditions; English-reading meter scale reads "Good" "?" or "Bad." Six sockets test all tubes. One octal socket tests all metal tubes regardless of filament connections by means of exclusive filament return selector switch. Neon test for internal leakage; also checks leakage of electrolytic condensers. Built-in power supply has simple accurate line voltage adjustment. Multi-meter ranges may be used for Free Reference Point Analysis by means of test leads supplied. Housed in attractive golden oak carrying case with slip-hinged cover. Size 20⅞x15x6¾" overall. Furnished with all necessary accessories, instructions and tube charts. For 98-125 Volt, 60 cycle A. C.

A10260. YOUR PRICE **$65.60**

MODEL 540 STANDARD ANALYZER

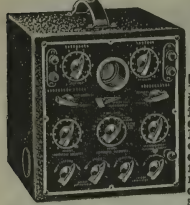
Designed for complete and accurate analysis of all radio receivers, including those using the new metal tubes. A remarkable test instrument that combines highest quality workmanship with features usually found only in more expensive equipment. The very latest in test instruments, the new Supreme Quadrimeter with double view windows and bi-indicating needles, prevents crowding a number of scales on one dial as in the past. Permits all tests by the Free Reference Point system as well as by the conventional analysis method. All meter ranges are selected by means of a single 12 point rotary switch in connection with a DPDT toggle switch. Tests all voltage, current or resistance in any radio circuit. Meter ranges are: 0-7-35-140-350-700-1400 volts A.C. and D.C.; 0-7-35-140 MA. D.C.; 0-2,000-20,000-200,000 ohms. Low ohmmeter reading is 1 ohm with 35 ohm reading at center of scale. Analyzer is equipped with cable, plug and adapters for making conventional tube socket tests. Complete receiver analysis can be made without removing chassis from cabinet. Instrument panel finished in antique bronze. The Supreme 540 Standard Analyzer is housed in an attractive golden oak case with removable hinged cover and carrying handle. Size is 16⅝x11⅝x5" overall. Complete with cable, adapters, test leads, instruction manual and Free Reference Point Analysis chart.

A10255. YOUR NET PRICE..... **$36.20**

PAY AS YOU EARN

ALLIED offers you the new Supreme instruments on a "Pay-as-you-earn" plan. A small down payment brings you any Supreme equipment you want and you pay for it in convenient monthly installments. Good service equipment means faster, more efficient servicing of each job and bigger profits because of greater customer confidence and satisfaction. Write for complete details today.

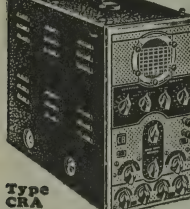
SERVICE *Instruments*



NEW LOW-PRICED CLOUGH-BRENGLE 105 OSCILLOGRAPH

A new portable oscilloscope designed and built around the type 913 cathode ray tube. Has every electrical feature of its big brother, the Model CRA listed below, but is built up for the Serviceman, Amateur or Experimenter who does not require a laboratory size instrument. Will permit accurate alignment of all-wave receivers, study of all complex radio set circuits, waveforms, modulation and distortion measurements. Has a host of other applications. Has dual amplifiers for vertical and horizontal sweep circuits. Input sensitivity is .68 R.M.S. volts for full screen deflection. Amplified linear sweep has range from 15 to 30,000 CPS. For 110 volt, 60 cycle A.C. Wt., 16 lbs. Measures 8⅞" high x 8¼" x 9⅝".

A10370. Complete with 5 tubes. NET..... **$47.92**



Type CRA

CLOUGH-BRENGLE CRA OSCILLOGRAPH

A precision instrument for visual checking of voltage and current problems. Laboratories, schools, etc., will find it invaluable for voltage measurements, modulation percentage, audio distortion, etc. When used with the model OM-A signal generator it provides actual selectivity measurements at all R.F. and I.F. frequencies. Both horizontal and vertical amplifiers have a sensitivity of .4 R.M.S. volts per inch of deflection. Horizontal sweep rate adjustable from 15 to 25,000 C.P.S. Housed in a black crystalline finished steel carrying case measuring 14¼" high, 17¼" deep and 8" wide. With calibrated screen and all necessary tubes. For 110 V. 60 cycle A.C. Shpg. wt., 41 lbs.

A3409. MODEL CRA. YOUR NET PRICE..... **$90.65**

CLOUGH-BRENGLE ALL-WAVE SIGNAL GENERATORS

MODEL OC-A

A complete, self-contained laboratory type signal generator which provides every intermediate, broadcast and short-wave frequency for practically any alignment purpose. Six bands cover all frequencies from 100 KC to 60 megacycles; hand-calibration assures readings accurate to ½ of 1%. New type dial has effective scale length of 25". Output is continuously variable from a minimum to a very strong signal; modulation may be switched off for unmodulated signal. 400 cycle signal also available for audio tests. Uses 1—6C5, 1—6N7 and 1—84 tubes. For 110 V. 60 cycle A.C. operation. Housed in rugged, durable metal case, with black crackle finish. Complete with tubes.

A3400. NET **$33.81**

MODEL OC-B

A3401. Identical with Model OC-A above, but for Universal operation from any 110 Volt source. May be used wherever A.C. or D.C. power is encountered. Complete with tubes

NET **$33.81**

MODEL OD-A

A3402. Also similar to above models, but for battery operation. Has self-contained 3-volt filament and 90 volt plate batteries. Uses two Burgess type Z30P and one Burgess 4F2H. Complete with low-drain tubes, but less batteries.

NET **$31.85**

MODEL OM-A

A3398. Similar to OC Models above, but with the addition of a beat-note frequency modulation circuit, necessary for producing selectivity-sensitivity curves when used with Cathode-ray Oscillographs. Frequency swings plus and minus 15 K.C. Complete with tubes, cords and instructions. For 110 volt 60 cycle A.C.

YOUR NET PRICE..... **$63.21**

CLOUGH-BRENGLE TIME PAYMENT PLAN

The complete line of C-B equipment including the "Service Laboratories" is available on the C-B time payment plan. Write for details. C-B catalog sent Free on request.

TACO RESONANCE INDICATOR

A highly sensitive resonance indicator built around the 6E5 Cathode Ray tube. May be used as output meter, interference locator, condenser checker, tuning meter, bridge indicator in place of galvanometer, and for numerous other applications. Uses two type 6H6 tubes, one as voltage doubler, and the other as a linear diode detector for rectifying the signal before applying it to the 6E5 tube. In brown crackle-finished metal case. For 110 V. 60 cycle A.C.

A7955. YOUR PRICE, less tubes..... **$6.76**

A7956. Kit of R.C.A. tubes for above consisting of one 6E5 and two 6H6 tubes **$2.17**

ACCURATE SOLAR CAPACITY ANALYZER

A sensational new instrument for quickly and accurately determining the worth and capacity of any condenser between .00001 and 70 mfd. A 6E5 tube is used as a bridge-balance indicator; capacity of condenser under test is shown directly on accurately calibrated color-coded scale. Also measures power factor, and detects defective condensers. Two large resistance scales give readings up to 2 megohms, for checking insulation resistance, or for measuring resistors. Checks all types of condensers. No headphones, meters, etc., are required; compactly built in sturdy, attractive cabinet, with handle for carrying. Measures 9½x7½x6¼". Requires 1—1V and 1—6E5 (not supplied). Shpg. wt., 9 lbs.

A7708. Model CB-1-U. For 110 V. 60 cycle. NET..... **$18.82**

A7709. Model CB-2-U. For 110-220 V. 25-60 cycle. NET **$23.52**

MILLION TUBE TESTER AND MULTIMETER

MODEL TV. Truly a complete "Laboratory" in one compact portable unit. An ingenious instrument combining tube tester features together with analyzer scales and functions. Some of its many features are: Illuminated meter; tests emission of all tubes; Neon test for shorts and leaks while tube is "HOT"; Continuous line voltage adjustment; Rotary filament voltage selector switch; By-pass condenser scale, .01 to 3 mfds., direct-reading; Electrolytic condenser and leakage tester; Voltage scales as follows: 0-30-300-900 volts D.C. (5000 ohms per volt); 0-3-300-600 milliamperes; 0-300 microamperes. 0-9 ohms, 0-15 megohm ohmmeter without batteries; Large 3" Square D'Arsonval meter with "GOOD-BAD" scale; Power circuit fused for meter protection, etc. For 110 V. 60 cycle A.C. Wt. 8 lbs.

A10375. NET **$27.95**

MODEL TM

A tube tester designed to test all tubes including metal, metal-glass and glass tubes. A large English reading "GOOD-BAD" scale indicates the exact condition of the tubes under test. Contains all other features of the Model TV above except the voltage, current and resistance features. For 110 V. 60 cycles A.C. Wt., 8 lbs.

A10376. NET **$18.95**

MILLION TUBE AND CONDENSER TESTER

MODEL CN. A newly developed tester packed full of appealing features. Calibrated neon indicator shows emission; checks tubes "Good" or "Bad." Shorts and leakages as high as six megohms may be checked between any elements. May be also used as a resistance indicator, or will check shorted or leaky by-pass and electrolytic condensers. Neon lamp may be used as resonance indicator for receiver alignment. Accurately tests all existing tube types. Complete with eight-foot power cord, in sturdy welded steel case, measuring 7"x7"x3½". For 110 V. 60 cycle A.C. Shpg. wt., 6 lbs.

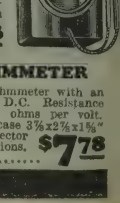
A9266. Model CN. NET..... **$9.95**

PORTABLE STANDARD VOLT-OHMMETER

A practical and convenient pocket-size Volt-Ohmmeter. Scale calibrated 0-10,000 ohms, and 0-300 volts D.C. Mounted in sturdy metal case 3 inches in diameter; 1½ inches deep. Equipped with 32 inch test leads. Includes self-contained flash-light cells. Switch is provided for rapid changeover from volts to ohms or vice versa.

A2900. YOUR PRICE **$2.30**

PORTABLE SIMPLEX VOLT-OHMMETER



An exceptionally compact, pocket-size test unit. Scale marked 0-3, 0-30, 0-300 volts D.C., and 0-10,000 ohms. Walnut finished bakelite case measures 1⅝x2⅞x3⅞". Has pin jacks for quick selection of desired scale. Self-contained batteries included. Supplied with 30 inch polarized test-leads, and instructions.

A2892. YOUR PRICE **$3.23**

PORTABLE PRECISION VOLT-OHMMETER

An exceptionally fine precision type pocket size volt-ohmmeter with an accuracy of 2%. Voltage ranges, 0-5, 0-50, and 0-500 D.C. Resistance range, 0-500,000 ohms. Moving coil-type meter, 1,000 ohms per volt. Ohmmeter has zero adjustment. Beautiful black bakelite case 3⅞x2⅞x1⅝" with necessary dry-cells included. Equipped with scale-selector pin-jacks; has 36 inch polarized test leads. With instructions.

A2893. YOUR PRICE **$7.78**

Modern TEST EQUIPMENT

WESTON SUPER-SENSITIVE ANALYZER MODEL 772

20,000 OHMS PER VOLT

The most sensitive "All-Purpose" test instrument on the market today. Has 4½" multi-scale meter with 100 division scale and sensitive D'Arsonval movement; knife edge pointer; micro-ampere scales for current readings, etc. Can be used to check all types of radio sets, and transmitters; has high sensitivity ranges for analysis of television circuits. D.C. voltage ranges of 0-2.5, 0-10, 0-50, 0-250, 0-1000 volts at 20,000 ohms per volt. A.C. voltage ranges 0-2.5, 0-10, 0-50, 0-250, 0-1000 volts at 1000 ohms per volt. Has six current ranges: 0-1, 0-10, 0-50, 0-250 D.C. M.A., plus 0-50 and 0-250 microamperes. Resistance scales: 0-3000, 0-30,000 ohms, 0-3 and 0-30 Megohms. High range ohmmeter may be used for condenser leakage tests. Housed in sturdy fabrikoid carrying case, size 15¼"x5⅛"x8¾". Attractive etched black panel trimmed in red and chrome.

A10350. YOUR PRICE **$46.50**

WESTON CHECKMASTER MODEL 771-2

A new tube and circuit analyzer. Checks all receiver tubes; measures receiver circuit voltages; locates condenser leakage, and makes resistance analyses. Provides separate tests for diode type tubes; checks for shorts under actual operating conditions. Quick reading, easily understandable scale reads "Good-Bad" for tube tests, also reads 0-10-100-1000 volts and 0-2,000,000 ohms. In attractive carrying case.

Wt., 17 lbs. For 110 volt, 60 cycle A.C.

A8922. YOUR PRICE **$45.00**

WRITE FOR DETAILS OF OUR TIME PAYMENT PLAN.

DEPENDABLE MODEL 305 TUBE TESTER

A new inexpensive tube tester designed to completely test every type of tube used today, including new metal tubes. Has spare switching capacity for many more types. Does not require adapters. New 5 inch bakelite fan-type test meter has English-reading "GOOD-POOR" scale. Neon lamp indicates shorts and leakage between any tube elements; also checks condensers. Measures resistances from 10 ohms to 1 megohm without use of batteries. Has separate line voltage meter with line voltage control. Tester is attractively contained in sloping panel case. Has etched panel. Operates on 105-135 volts, 50-60 cycles. Simple to operate; low in price.

COUNTER MODEL KIT FORM

A9200. 305KC. All parts including case and panel, for building 305 Tube Tester.
YOUR PRICE **$17.29**

COMPLETELY WIRED

A9201. 305C. Completely assembled and wired Counter Tube Tester. As illustrated. 13½x9¼x6¼". Shpg. wt., 10 lbs.
YOUR PRICE **$21.51**

PORTABLE MODEL KIT FORM

A9202. 305KP. All parts, including panel, and portable case with hinged cover, for building 305 Tube Tester.
YOUR PRICE **$19.45**

COMPLETELY WIRED

A9203. 305P. Completely assembled and wired Portable Tube Tester. 14x11½x7½". Shpg. wt., 14 lbs.
YOUR PRICE **$24.01**

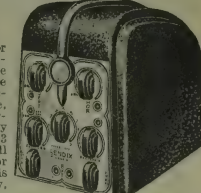
SIMPSON ROTO-RANGER ANALYZER

A new advanced analyzer with many exclusive features. Provides complete receiver analysis by the point-to-point method or socket analysis through connecting cable without removing set chassis from cabinet. Ingeniously designed new Roto-Dial meter has 12 independent scales yet maintains single scale clarity of reading. Selector switch makes any of the ranges instantly available. Ranges are: 0-8-130-1000 volts A.C. or D.C.; 0-1-8-130 MA D.C.; 0-100 ohms with center scale reading of 5 ohms; 0-50,000 ohms (center scale 1,400); and 0-2 megohms (center scale 21,000). Scales flash into view in synchronism with the range selector. Separate scales for each of the 12 ranges. Accuracy of reading is extremely high due to lack of crowding multiple scales on one dial. All A.C. voltage ranges are available for output circuit measurements. Supplied with a complete set of adapters, analyzer cable and plug, test leads and full instructions. Housed in leatherette covered carrying case with detachable lid. Size 12"x9½"x6". Wt., 22 lbs.

A9273. YOUR PRICE **$48.02**

BENDIX-DAYRAD TEST EQUIPMENT

MODEL 3710 OSCILLOSCOPE

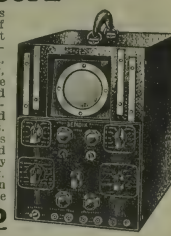


Here is the answer to the demand for a highly efficient portable oscilloscope having every desirable feature. So flexible that every type of circuit analysis can be made and visually checked. Provides accurate visual measurements of voltage, wave-forms, percentage modulation, distortion, RF and IF alignment; has many other valuable applications. Uses new 913 Cathode Ray tube with 1" screen. All controls are mounted on front panel for easy rapid adjustment. Separate controls provided for synchronization, intensity, focus, vertical and horizontal sweep circuits, vertical sweep lock, etc. Horizontal and vertical amplifiers both have frequency range of from 15 to 100,000 cycles. Sweep frequency is continuously variable from 15 cycles to 20,000 cycles. Built into a sturdy, attractive steel cabinet. Size, 10½"x8¾"x6¼". Complete with tubes. For 110 volt 50/60 cycles.

Wt., 15 lbs.

A10360. NET **$48.26**

MODEL 64 OSCILLOSCOPE



A laboratory type oscilloscope which permits the highest degree of accuracy in study of transients, wave-forms, voltage and current measurements, radio receiver RF and IF circuit alignment, machine and motor vibration, etc. Ideal for complete analysis of receiver, amplifier, and modulator circuits. Uses type 906 cathode ray tube with 3" screen, mounted on an angle for easy reference. Built-in horizontal and vertical amplifiers have extended frequency range to cover all requirements. Sweep frequency range is graduated in steps and equipped with synchronization control and frequency-locking circuit. Complete flexibility provided by perfect control of each circuit. Housed in rugged steel carrying case, satin black panel with etched markings. Complete with tubes. Wt., 50 lbs. For 110 V. 50/60 cycles.

A10361. NET **$83.30**

MODEL 65 OSCILLOSCOPE

The finest laboratory oscilloscope available. Similar to Model 64 above, but contains built-in 1000 KC oscillator and frequency modulator. Will permit accurate alignment of receiver circuits without the use of additional equipment. Frequency modulator can be used on external service oscillator by means of output terminals. Complete with tubes. Wt., 75 lbs. For 110 V. 50/60 cycles.

A10362. YOUR PRICE **$132.50**

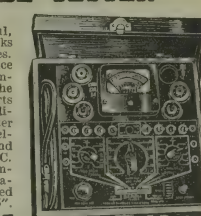
ALL-WAVE SIGNAL GENERATOR

A new direct-reading signal generator which fully covers all frequencies from 60 to 60,000 KC, on a large, easy-to-read accurately calibrated dial. 6E5 output indicator built in; no other output meter is necessary. Three section attenuator controls "High" and "Low" outputs; 400 cycle modulation may be switched off for unmodulated signal. Fully shielded internally and externally; housed in black crystal finished case measuring 10x7x4½". Complete with tubes. Shpg. wt., 12 lbs. For 110 V. 60 cycle A.C.

Model 36-A.
A9270. NET **$41.65**

PORTABLE TUBE TESTER

MODEL 20C



Completely checks all types of metal, metal-glass and glass tubes; also checks 25 different types of transmitting tubes. Operation is fast and simple; no reference charts needed. Only three controls. Simple indexing shows correct tests at the turn of the index wheel. Tests for shorts and leakage; indicates quality of tube directly on "Good-Bad" meter scale. Meter is D'Arsonval type with high-torque jewel-bearing movement. Has ohmmeter and voltage scales with external tip jacks. D.C. voltage range from 0-100-1000 volts; ohmmeter range to 400,000 ohms. For operation from 110 volts 50/60 cycles. Housed in walnut carrying case 11¼"x12"x5". Wt., 10 lbs.

A10363. NET **$39.15**

MODEL 22C—COUNTER MODEL

Similar to Model 20C above but in counter model. Will help to sell more tubes by reason of its simple, fast, and accurate analysis of tubes. Size, 13"x13¾"x4". Wt., 14 lbs.

A10364. NET **$39.15**

BENDIX TIME PAYMENT PLAN

ALLIED offers you an opportunity to purchase Bendix-Dayrad equipment on a new time payment plan. A nominal down payment brings you the instruments you need. Monthly payments can be made from your increased earnings. Write for complete details. Catalogs showing the complete Bendix-Dayrad line are available upon request.

TRIPLETT Master TEST EQUIPMENT

VOLT-OHM-MILLIAMMETER

MODEL 1200-A

2000 OHMS PER VOLT

A compact universal A.C.-D.C. Volt-Ohm-Milliammeter with many new features. Twin meters in single case have separate A.C. and D.C. movements. D.C. meter reads: 0-10-50-250-1000 volts at 2000 ohms per volt; 0-1-10-50-250 M.A.; 0-1500 ohms-1.5 meg.-5 meg. Has additional "Backing" low-ohm scale of .5-500 ohms with 15 ohm center scale reading. A.C. meter reads: 0-10-50-250-500-1000 volts. Meter may be tilted and read at three angles. All voltage scales are direct-reading; milliammeter scales have individual adjustments; with waste saloner switch for rapid operation. Meter size 7⅞"x⅝"x4¾". With leads, probes, and instructions. Shpg. wt., 10 lbs.

A9331. List. $32.50. NET **$21.23**

MODEL 1200-B—2000 OHMS PER VOLT

Similar to 1200-A except that meter has sensitivity of 2000 ohms per volt on DC voltages. Suitable for checking all circuits, including AVC. Also has 250 milliammeter scale, and additional ohm-meter scale of 7½ megohms. Shpg. wt., 10 lbs.

A7951. List. $36.50. NET **$23.84**

MODEL 1200-C—5000 OHMS PER VOLT

Same as the Model 1200-A except that meter has sensitivity of 5000 ohms per volt on DC voltages. Suitable for checking all circuits, including AVC. Also has 250 milliammeter scale, and additional ohm-meter scale of 7½ megohms. Shpg. wt., 10 lbs.

A9346. List. $40.00. NET **$26.14**

TUBE TESTER

MODEL 1210-A

Tests all types of tubes, metal as well as glass. Emission type design with new scale, not marked "GOOD", "Bad-Weak" and "BAD". Effective 5½ inch D'Arsonval meter scale. Indicates short and leakage tests directly on meter. A line voltage variable is built in. Simple to use; tests all tubes quickly and accurately. Supplied with neoprene tube and complete instructions. Operates on 110-120 volts, 60 cycle current. In new metal case, 7⅞"x9¼"x4¾". Shpg. wt., 11 lbs.

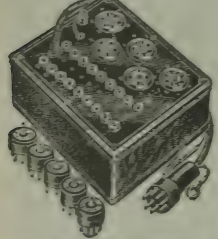
A9334. List. $30.00. NET **$19.60**

1211-A COUNTER TUBE TESTER CASE

A9345. Attractive quarter-ash counter case especially designed for 1210-A Tester. Shelf panel with charts. Will help sell more tubes. List. $6.00. NET **$3.92**

FREE-POINT TESTER

MODEL 1220-A

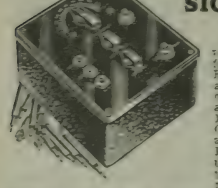


Services all types of circuits using metal or glass tubes. For use with the Model 1200-A Master Volt-Ohm-Milliammeter. Makes proper voltage tests between any tube element or socket terminal. Plugs provided for 4, 5, 6, combination 7 prong, and 8 prong sockets. Equipped for direct connection of meter leads for all tests. With 7 prong latch pins and 5 adapters. In new metal case. Shpg. wt., 9 lbs.

A9336. List. $15.00. NET **$9.80**

ALL-WAVE SIGNAL GENERATOR

MODEL 1230



A stabilized frequency, continuously variable Signal Generator. Furnishes frequencies from 100 K.C. to 18 M.C. in six ranges. Uses 9 tubes and an audio oscillator generator. Uses a single tube. A separate 6A tube is used as R.F. amplifier, mixer, and 1st I.F. Operates through tube current. Oscillator is independent of line voltage. All parts are individually shielded. Power taken from oscillator. Line and broad signals, modulated or unmodulated by 1 audio and attenuator. In metal case.

Complete with tubes and batteries. Shpg. wt., 15 lbs.

A9337. List. $23.00. NET **$15.02**

VACUUM TUBE VOLTMETER

MODEL 1250

A new laboratory type instrument of special design and high accuracy. Will give a steadier reading of A.C., low A.C. and D.C. voltages. Useful for determining Signal Voltages in IF Amplifier stages; signal-gain per stage; automatic volume control voltages, etc. New bridge circuit design using 1—6C6, 1—76 and 1—6J; eliminates errors due to changes in tube characteristics; calibration is always correct. High-resistance input draws negligible current from circuit under test. Meter is of the Triplett tilting type twin meter, combining a sensitive Galvanometer and a three range voltmeter reading 0-1.5-5-15 Volts. For 110 volts 60 cycle A.C. operation. Supplied with special low-capacity shielded test lead, with prod, test lead and prod for low potential side of circuit, and test lead with clip for ground-chassis connection. Measures 7⅞"x9⅜"x4¾". Complete with tubes. Shpg. wt., 13 lbs.

A9321. List. $50.00. YOUR PRICE **$32.67**

CONDENSER TESTER

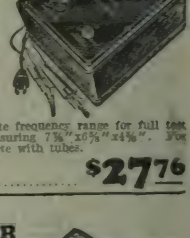
MODEL 1240

A precision instrument for the Service Engineer. Accurately tests for shorts, opens, and high resistance leakages; capacities of unmarked condensers may be easily and quickly determined. Shadow type meter permits exact low voltage adjustment for critical readings; condition of condenser is shown on accurate Triplett Master-Unit meter. D.C. voltages for breakdown test available up to 1000 volts; intermediate voltages of 2, 20, 40, 200 and 400 volts. A.C. voltages for open and capacity tests available in same steps. Checks capacities from .001 to 10 mfd. micro condensers from .001 to 1½ mfd.; sound boxes, .001 to .05, .1 to .5 and .1 to 10 mfd. For 110 volts 60 cycle A.C. operation. In handsome metal case; measures 7⅞"x6⅝"x4⅝". Complete with tube. Shpg. wt., 10 lbs.

A9322. List. $37.25. NET **$24.33**

AUDIO FREQUENCY OSCILLATOR

MODEL 1260

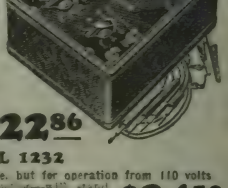


The ideal instrument for testing all audio amplifiers, speakers, etc.; fidelity curves may be easily and quickly run, using the oscillator and a good output meter. New circuit makes use of the feedback type oscillator to produce a pure sine wave at 10 different frequencies which are amplified and fed to a Universal output transformer, arranged to match any amplifier input. Smooth, positive gain control. Frequency selector switch is calibrated 100-150-200-300-500-1000-2000-3000-4000-5000 and 10,000 cycles, giving adequate frequency range for full test of hi-fidelity. In handsome metal case measuring 7⅞"x6⅝"x4⅝". For 110 Volts 60 cycle A.C. operation. Complete with tubes. Shpg. wt., 14 lbs.

A9335. List. $42.50. NET **$27.76**

ALL-WAVE SIGNAL GENERATOR

MODEL 1231



A stable, accurate direct-reading All-Wave signal generator of new design and simple operation. Vernier type 12" dial-scale permits extremely fine readings on each of the six fundamental frequency ranges; calibrated from 100 to 9-1 K.C. and 100 to 18 M.C. An audio signal is available at separate jack for audio tests. Perfect, smooth attenuation. In handsome crystalline finished durable metal case.

A9326. Master All-Wave Direct-Reading Signal Generator for battery operation. Complete with two 30 tubes and batteries. Shpg. wt., 13 lbs.

List. $35.00. YOUR PRICE **$22.86**

MODEL 1232

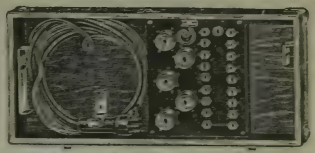
A9327—Same as Model 1231 above, but for operation from 110 volts 60 cycle A.C. lines. Sturdy construction will stand much hard usage and service. Shpg. wt., 16 lbs.

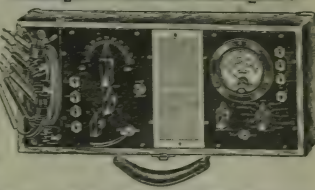
List. $37.50. NET **$24.50**

SEE NEXT PAGE FOR COMPLETE MASTER TEST SETS AND MASTER UNIT CASES.

TRIPLETT Universal TEST EQUIPMENT

Model 1181-A PORTABLE LABORATORY TESTER





An absolutely modern tester which combines three instruments in one case for complete circuit analysis. Includes: (1) the precision Model 1151 All-Wave Oscillator for aligning all sets and for tube testing; (2) the Model 1125 Universal Volt-Ohm-Milliammeter for point-to-point analysis and as output meter; (3) the Model 1166A Free-Point Auxiliary Set Tester for free-point and standard analysis tests. These three high quality instruments enable you to make point-to-point tests, standard circuit analysis and overall performance tests on all circuits.

THREE GREAT TESTING SYSTEMS IN ONE

The new 1181-A Portable Laboratory Tester makes point-to-point analysis without removing the chassis from the cabinet. Quickly and accurately measures voltages, resistances and currents between any two circuit points. For conventional analysis both Auxiliary Tester and Volt-Ohm-Milliammeter are employed. Quickly localizes circuit troubles. Overall performance of any set is easily checked by the All-Wave Oscillator and output meter portion of the Volt-Ohm-Milliammeter. Permits accurate circuit alignment and definitely locates causes of intermittent reception. Charts are supplied for direct capacity measurement.

FOR ALL CIRCUITS

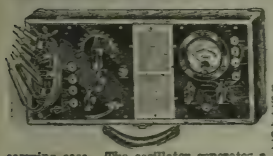
The 1181-A Tester is ultra-modern; it will handle all metal tube as well as glass tube circuits. Meter scales read as follows: 0-15-150-750 Volts A.C. or D.C. at 1000 ohms per volt; 0-1.5-15-150 M.A., D.C.; 0-15-150 M.A., A.C.; 0-1500-1.5 meg.-3 megohms. Oscillator has four ranges from 110 K.C. to 18 M.C. Auxiliary set tester has 4, 5, 6, 7 prong and 8 prong octal sockets with jacks for all analyses.

COMPLETE MODEL 1181-A

The 1181-A Tester constitutes a compact complete radio service test laboratory. Size 16½x4¾x7½". Furnished complete with batteries, adapters, accessories, and instructions. Shpg. wt., 20 lbs.

A9330. List, $57.00.
YOUR PRICE **$37.24**

PERPETUAL TESTER
MODEL 1180



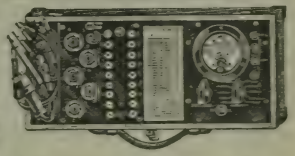
A professional instrument designed to meet precision service standards. Combines a Model 1151 hand-calibrated shielded All-Wave Oscillator and a Model 1125 Universal Volt-Ohm-Milliammeter in a single oak carrying case. The oscillator generates a modulated or unmodulated signal for complete alignment of all receivers.

ALL-WAVE OSCILLATOR—VOLT-OHM-MILLIAMMETER COMBINED IN ONE CASE

The 1180 Perpetual Tester will check the overall performance of any receiver. Universal Meter reads: 0-15-150-750 Volts A.C. or D.C.; 0-1.5-15-150 M.A. D.C.; 0-15-150 M.A. A.C.; 0-1,500 ohms—1.5-3 megohms. Selector switch on panel chooses range quickly. A zero adjustment knob for the ohmmeter, an A.C.-D.C. switch and four tip jacks are also provided. The All-Wave Oscillator has four bands covering 110-500 K.C.; 500-3,000 K.C.; 2,000-6,000 K.C.; and 6,000-18,000 K.C. Complete shielding eliminates all radiation except through output jacks on oscillator. Completely operated from self-contained 22½ V. battery and 2—1½ V. flashlight cells. Supplied with test prods, leads and instructions. Shpg. wt., 20 lbs. An invaluable all-purpose test instrument.

A9329. List, $45.00. NET..... **$29.40**

UNIVERSAL SELECTING ANALYZER
MODEL 1167-A



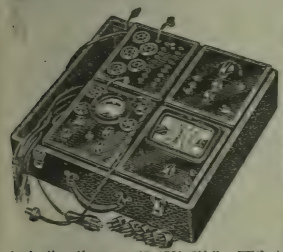
Ideal for making complete receiver analysis by either point-to-point method or standard analysis method. Consists of Model 1166-A Auxiliary Set Tester and Model 1125 Universal Volt-Ohm-Milliammeter in a single oak case. For more detailed description see above.

FOR METAL AND GLASS TUBE SETS

Has the new octal socket and adapter to test metal tube circuits in addition to sockets for all glass tube circuits. A rotary-in switch brings all set circuits to the 5 sockets on the panel; tip jacks permit external use of meter terminals for complete analysis.

A9325. 1167-A UNIVERSAL SELECTING ANALYZER. In case [illegible]. Complete with plugs, cords, adapters and instructions. Makes a complete circuit analysis. Shpg. wt., 22 lbs.
List, $37.50.
YOUR NET PRICE..... **$24.50**

COMPLETE MASTER UNIT TEST SETS



A professional, completely portable laboratory consisting of four accurate and versatile Triplett instruments. Designed to service all circuits using metal or glass tubes. Each instrument is described in detail on page 26. All four are housed in compact leatherette case as illustrated.

MODEL 1205-A

Consists of: Model 1200-A, Model 1210-A, Model 1220-A, and Model 1230 Master units in leatherette case, 17x17¾x5¼". With test leads, adapters, instructions, etc. Shpg. wt., 36 lbs.

A9338. List, $109.50. NET..... **$71.54**

MODEL 1206

Same as 1205-A but with Model 1231 Master All-Wave Signal Generator instead of Model 1230. Complete with instructions.

A9341. List, $121.50.
YOUR PRICE..... **$79.38**

MODEL 1207

Similar to 1205-A and 1206 but with new Model 1232, 110 V., A.C. Master All-Wave Signal Generator. With instructions.

A9344. List, $124.00.
YOUR PRICE. **$81.02**

FREE-POINT AUXILIARY SET TESTER
MODEL 1166-A

Permits complete free-point circuit analysis when used with Model 1125 Volt-Ohm-Milliammeter. Consists of panel containing 4, 5, 6, 7 prong and 8 prong sockets, with all circuits brought out to jacks on face of panel. Cable and plug brings all set socket connections to panel. Complete voltage, current, resistance and continuity tests may be made without removing the chassis. Comes complete with adapters and instructions. Less case. Shpg. wt., 10 lbs.

A9324. List, $15.00. NET..... **$9.80**

MODEL 1166-A IN CASE

The Model 1166-A Free-Point Auxiliary Set Tester as described above but in sturdy attractive oak carrying case with handle. Makes a handy instrument. Shpg. wt., 16 lbs.

A9323. List, $18.50. NET..... **$12.08**

UNIVERSAL AC-DC VOLT-OHM-MILLIAMMETER
MODEL 1125

Designed to measure both A.C. and D.C. voltages and currents, and resistance. Sensitive D'Arsonval meter is mounted on panel with selector switch for operating ranges. Reads: 0-15-150-750 V. A.C. and D.C.; 0-1.5-15-150 M.A. D.C.; 0-15-150 M.A. A.C.; 0-1500 ohms-1.5 meg.-3 megohms. Voltmeter resistance is 1000 ohms per volt for all ranges. Scale with chart for compact capacity measurements. Ideal for use with Model 1166-A Auxiliary Set Tester to make a complete free-point analysis. Supplied complete with test leads, prods, batteries and instructions. In attractive oak case, 11¾x8¼x5¼". A sensitive accurate test instrument at an attractive price. Shpg. wt., 15 lbs.

A9320. List, $30.00.
YOUR PRICE **$19.60**

MASTER UNIT CASES

You can make up any type of combination Portable Test Laboratory by using these handsome cases to house any of the Triplett Master Unit Instruments shown on Page 26. Designed for portable use. Leatherette covered; with extra compartment for test leads, adapters, etc.

A9332. FOR SINGLE UNIT.
List, $6.00.
NET **$3.92**

A9339. FOR TWO UNITS.
List, $7.00.
NET **$4.57**

A9340. FOR THREE UNITS.
List, $8.00.
NET **$5.22**

A9333. FOR FOUR UNITS.
List, $9.00.
NET **$5.88**

TRIPLETT TEST EQUIPMENT — RANGER EXAMINER

TRIPLETT TESTERS

MODEL 1503 MULTI-PURPOSE TUBE TESTER

- Nine Instruments in One
- Checks All Metal or Glass Type Tubes Accurately
- Tests Paper and Electrolytic Condensers
- Provides Full and Adequate Circuit Analysis

A remarkable, new Multi-Purpose instrument of extraordinary design and construction. Tests all metal and glass tubes quickly and accurately, and also provides for adequate circuit analysis. Checks tubes for gain and power output under actual operating conditions.

NINE INSTRUMENTS IN ONE

The 1503 Tester provides an ideal combination of nine separate instrument functions: Shows condition of all tube types plainly on large "GOOD-BAD" scale; gives Neon short tests, Neon paper condenser tests, tests for electrolytic condenser leakage. The meter is also calibrated to give the following Volt-Ohm-Milliampere readings: 0-10-50-250-500-1000 Volts D.C.; 1,000-10,000-100,000 ohms—1-10 megohms; —10 to +15 Decibels; 0-10-50-250-500-1000 Volts A.C.; 10-50-250 M.A.-D.C. Meter sensitivity is 1000 Ohms per Volt on D.C. and 400 Ohms per Volt on A.C. Housed in a handsome 3-ply two-tone walnut case. With sloping panel and removable cover. Suitable for counter or portable use. Measures 15⅜"x11⅛"x7½". Shpg. wt., 26 lbs. For 110 V. 50-60 Cycles A.C.

A9343. List, $70.00. NET..... **$45.74**

MODEL 1504 MULTI-PURPOSE TUBE TESTER

A new addition to the 1500 series. Identically the same as Model 1503 above but with added provisions for circuit analysis. Combines in one instrument the equivalent of 10 separate test units. Checks any type tube by power output method. Equipped with free-point tester, sockets and jacks in place of the etched metal side panel carrying tube readings as on the 1503. For 110 V. 50-60 cycles A.C. Wt., 26 lbs.

A9609. List, $85.00. NET..... **$55.54**

MODEL 1502 POWER OUTPUT TUBE TESTER

A deluxe tube tester of superior design and construction, similar to Model 1503 above, but without the Volt-Ohm-Milliammeter features. Intended for tube tests only. Tests all metal and glass tubes quickly and accurately. Makes Neon short and leakage test between all tube elements. Checks gain and power output of tubes under actual operating conditions. English-reading meter scale reads "GOOD" or "BAD". Simple to operate. Housed in attractive walnut case, with inclined panel and removable cover. Case measures 15¾x11⅛x7½". For 110 Volt 50-60 cycle A.C. Operation. Shpg. wt., 26 lbs.

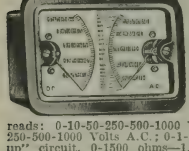
A9342. List, $55.00.
YOUR PRICE **$35.94**

MODEL 666 VOLT-OHM-MILLIAMMETER

A new and improved service instrument of precise design and superior construction. Built around a sensitive Microammeter movement, it will accurately indicate values for Volts, Ohms and Milliamperes. Compensated copper-oxide rectifier provides measurement of A.C. Voltages. Meter scale reads: 0-10-50-250-500-1000 Volts D.C.; 0-10-50-250-500-1000 Volts A.C.; 0-1-10-50-250 M.A. D.C.; 0-300-250,000 Ohms. Higher resistance readings may be obtained with external battery. Meter sensitivity for both D.C. and A.C. voltages is 1000 Ohms per Volt. Panel carries three controls: A.C.-D.C. toggle switch, rotary meter-range switch, and zero ohms adjuster. Complete with battery, leads, alligator clips and instructions. Size 3¼x5⅞x2⅛". Wt., 4 lbs.

A9601. List, $22.50.
YOUR PRICE **$14.70**

MODEL 1200-A VOLT-OHM-MILLIAMMETER KIT



A complete kit of parts for Service Engineers who wish to "build their own" Triplett Model 1200-A Master Universal A.C.-D.C. Volt-Ohm-Milliammeter. Kit includes: the new Twin meter with separate A.C. and D.C. movements, of 2% accuracy, marked panel plate, all necessary series and shunt resistors, switches, ohms-adjuster rheostats, and complete instructions and blue prints. Meter reads: 0-10-50-250-500-1000 Volts D.C. at 2000 Ohms per Volt; 0-10-50-250-500-1000 Volts A.C.; 0-1-10-50-250 M.A.; 0-300 low ohms by "back-up" circuit, 0-1500 ohms—1.5-3 megohms. Dual meter measures 4⅞x2⅞x1⅝ inches; flange measures 3⅝"x5⅝". An ideal outfit for the serviceman.

A7950. Complete kit of all necessary parts as described above. Shpg. wt., 10 lbs.
YOUR PRICE **$16.33**

NEW RANGER INSTRUMENTS

MODEL 740 MULTI-METER

A new precision type Volt-Ohm-Milliammeter. Uses a Triplett model 326 square type precision meter with an accuracy of 2% on D.C. and 5% on A.C. at 1000 ohms per volt. A.C. scale reads 10-50-250-500-1000 at 1000 ohms per volt. D.C. scale reads 10-50-250-500-1000 volts at 1000 ohms per volt. D.C. milliampere scale readings are 0-1-10-50-250. Resistance scale has a low range of 0-300 with mid-scale reading of 25 ohms. Back-up scale is used without appreciable contact error. High ohms reading of 250,000 ohms at 1.5 volts. Special provisions are made for reading up to 2.5 megohms. Case has compartment for test leads, etc. Size 6"x7⅞"x4⅛". Complete with test leads and instructions.

A9620. List, $31.00. NET **$18.23**

MODEL 440 TUBE TESTER

Will check all tube types speedily and accurately. A single unit tube tester using a 2" bakelite cased Triplett meter accurate to 2%. Has a "Good-Bad" tube-test scale in colors. Embodies all of the latest improvements. Built to stand large overloads. All of the R.M.A. standards for proper testing of tubes included in the 440. Some of the many salient features are: Direct-reading scale; Tests metal, metal-glass, and glass tubes; Tests for leakage and shorts; Meter adequately protected against damage; Uses A.C. meter for line voltage adjustments; Requires only four simple operations in making complete tube tests. Mounted in metal case 6x7⅞x4⅛". Complete with tube data charts.

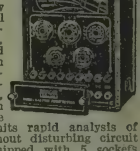
A9621. List, $30.00. NET **$17.64**

DIRECT-READING SIGNAL GENERATOR MODEL 540

Supplies signals on 5 frequency bands from 110 to 20,000 kilocycles, all fundamentals. Each plug-in coil is accurately calibrated at the factory and set so that frequency will not be disturbed. Much greater accuracy is also attained with plug-in coils instead of a coil and tap arrangement with its inherent contact losses. Guaranteed accuracy is less than 1% on broadcast frequencies; less than 2% on short waves. Provides either modulated or unmodulated signal. Stability of operation is assured by rigid mechanical construction and carefully designed circuit. Completely shielded against static or magnetic fields. Equipped with necessary graphs, batteries and accessories. Fully-shielded; mounted in metal case 4⅞x7⅞x10".

A9622. List, $31.00. NET **$18.23**

FREE-POINT TESTER MODEL 640



This new Ranger model 640 Free-Point Tester, when used together with the 740 volt-ohm-milliammeter, makes an ideal service unit. Permits rapid analysis of circuits without disturbing circuit wiring. Equipped with 5 sockets with standard R.M.A. markings for servicing all sets with new or old types of metal, metal-glass or glass tubes. 8 automatic and 10 single action jacks, for use in set analyzing and testing various voltages in radio sets, are mounted on the panel. Extra connections can be added later if they become necessary. 4⅞x7⅞x6" black enamel finished case. Complete with instructions. Convenient handle makes it easily portable. A highly dependable testing instrument.

A9623. List, $16.50. NET **$9.70**

COMBINATION RANGER INSTRUMENTS

The Ranger units in the combinations shown below give you the instruments most necessary to your general servicing needs. They are offered to you at a substantial saving. Use them to complete your test equipment line and as portable laboratories on service calls. Available in combinations only as shown. Furnished in portable electro-black enameled metal cases 11⅞x7⅞"x4⅛".

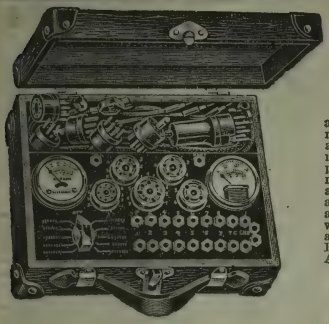
No.	Combinations		NET
A9625.	Model 440-740.	Tube Tester and Multimeter.....	$34.40
A9602.	Model 640-740.	Free Point Tester and Multimeter.	26.46
A9624.	Model 440-540.	Tube Tester and Signal Generator	34.40
A9605.	Model 540-740.	Signal Generator and Multimeter.	34.99

MODEL 735 VOLT-OHM-MILLIAMMETER

A complete, handy Volt-Ohm-Milliammeter of convenient small size; may be easily carried in a coat pocket or in the tool kit. Meter is a Triplett D'Arsonval type instrument with 2% accuracy, with scales for reading 0-15-150-750 Volts D.C.; 0-1.5-15-150 M.A.; 5-1000-100,000 ohms. Housed in a sturdy molded black case, measuring only 3⅛"x5⅞"x2¼". Has black and silver panel. Supplied with battery, leads and test clips.

A9604. List, $18.00. NET **$10.58**

Readrite TEST EQUIPMENT



The Readrite Model 720-A Analyzer is housed in a sturdy leatherette case, 11x4¾x8". With removable hinged cover. Shipping weight, 10 lbs.

NEW MODEL 730-A

Same as the Readrite 720-A but with Triplett 1,000 ohms per volt DC Voltmeter.

A9277. Complete in case with instructions.
List, $31.00.
NET..... **$18.23**

READRITE POINT-TO-POINT ANALYZER

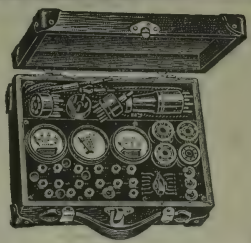
MODEL 720-A

A new Readrite Analyzer up-to-the-minute in all respects. Designed to test all parts of all radio circuits including modern metal as well as glass tube types. Measures voltages and currents accurately in any tube circuit, and makes point-to-point tests between all tube socket terminals. Resistances, continuities, and capacities are also quickly measured. Break-in jacks in all tube circuits provide a means of obtaining all current and voltage measurements. Equipped with 8-conductor cable and plug with necessary adapters for plugging into any type tube socket. Extremely flexible in operation. Has separate A.C. and D.C. meters.

TESTS METAL AND GLASS TUBE CIRCUITS

All meter ranges are available through a single pair of jacks. Selector switch quickly chooses proper scale on AC or DC meters. DC scales are: 0-15-150-300-600 Volts, 0-15-150 M.A.; AC scales are: 0-10-25-150-750 Volts. Complete point-to-point analysis as well as standard analysis may be made without removing the receiver chassis from the cabinet. Quickly and accurately locates circuit troubles.

A9276. Complete with adapters, charts, and instructions.
List, $25.00.
NET **$14.70**



READRITE ANALYZER

MODEL 710-A

A new Readrite Standard Analyzer which completely and accurately tests all parts of all metal and glass tube receiver circuits. Meters may be connected into various parts of the circuit for testing plate, filament, grid, screen and line voltages and currents. A 1½ volt battery is required for testing continuity and resistance of all resistors, chokes, transformers, etc., without removing the radio chassis from the cabinet. Charts are provided for use in testing condensers and for measuring resistances up to 100,000 ohms. Meters are accurate to within 5%. A reliable low-priced test instrument for the small service shop. Will check voltage, current, capacity and continuity in any set and for any of the tubes in the set, whether A.C. or battery type.

FOR ALL OCTAL AND GLASS TUBE CIRCUITS

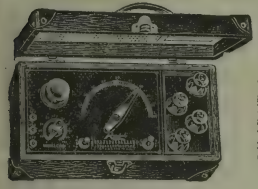
Four sockets are provided to accommodate all metal and glass tubes. The analyzer cable is equipped with a small-size latch-type plug and adapters to fit all sets. The three meters provide the following readings: 0-20-60-300-600 Volts DC; 0-10-140-700 Volts AC; 0-15-150 M.A. DC. External jacks are provided for using these nine scales separately. 12 position selector switch connects the meters into various parts of circuit under test. Housed in a sturdy, attractive leatherette case, 11"x8½"x4". Shpg. wt., 10 lbs.

A9275. Complete with plug, cable, and instructions.
List, $27.50.
YOUR PRICE **$16.17**

MODEL 712-A

Same as 710-A described above, but with 1000 ohms per volt Triplett d'Arsonval DC meter. Voltmeter reads: 0-15-60-300-600 Volts. In leatherette case. Shipping wt., 11 lbs.

A9280. Complete with plug, cable, adapters and instructions.
List, $37.00.
NET **$21.76**



READRITE ALL-WAVE SIGNAL GENERATOR

MODEL 554-A

A completely shielded All-Wave Oscillator. Tube-modulated and battery-operated. Plug-in coils are used to give complete coverage on five over-lapping fundamental bands, from 100-20000 K.C. Designed to meet all present and future requirements. For additional frequency bands to meet future requirements, it is only necessary to add new coils. The extra-large scale permits accurate frequency settings.

5 BANDS: 100-20000 K.C.

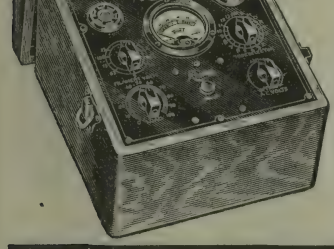
Calibration curves are supplied for each of the five bands: 100-360 K.C.; 350-1050 K.C.; 940-3700 K.C.; 3300-10800 K.C.; 8800-20000 K.C. Two type 30 tubes are used—one as R.F. oscillator and one as audio oscillator. A modulation "on" and "off" switch is provided. A variable attenuator on front panel varies oscillator output over entire range. Circuits are thoroughly stabilized for dependable operation. Permits complete alignment of all types of radio receivers, furnishing all Short Wave, Broadcast, and Intermediate frequencies. Housed in a sturdy leatherette carrying case with removable hinged cover. Size, 12x6½x5¾". Batteries are self-contained.

A9286. Complete with coils, tubes and batteries.
List, $24.00. NET..... **$14.11**

MODEL 557 DIRECT-READING

Similar to Model 554-A above but with direct-reading dial. Accuracy of calibration is less than 1% on broadcast band and 3% on high frequency ranges. Completely shielded. Leatherette case, 12" x 6½" x 5¾". Wt., 12 lbs. With tubes and batteries.

A9603.
List, $30.00. NET.. **$17.64**



NEW READRITE 430 TUBE TESTER

A brand new, inexpensive direct-reading Tube Tester. Quickly and accurately determines condition of all metal and glass type tubes. Two meters are provided; one is a Triplett Model 221 meter with "GOOD-BAD" scale; the other is shadow-type AC meter for adjusting line voltage. Simple to operate for accurate tube condition tests. Applies actual load values to tube under test. Has five sockets which handle all 4, 5, 6, 7 and the new 8 prong Octal tubes. Up-to-date in design and performance. Checks all tube types completely and accurately. Positively and efficiently indicates the presence of the slightest leakages and all shorts.

TESTS NEW METAL & ALL GLASS TUBES

The new Readrite 430 Tube Tester checks all Octal base metal tubes as well as every existing glass type. Shows condition of tube as "GOOD" or "BAD" on English-reading meter. Tests for shorts and leakage are read directly on meter. Meter is protected against damage. Controls are provided for adjusting proper line voltage, filament voltage and tube load. An additional control selects proper tube socket connections. Actual tube test is made by pressing a single button. The Readrite 430 Tube Tester is attractively housed in a quartered oak case with removable cover and sloping all-metal lithographed panel. Ideal for either portable or counter use. Shpg. wt., 17 lbs. Increase your tube sales business with the new Readrite 430 Tube Tester which completely checks the condition of all metal and glass tubes. A highly dependable tube tester built to efficient standards and offered at an attractive low price.

MODEL 431

As described above, but with accurate Readrite "GOOD-BAD" English-reading meter in place of Triplett meter. Complete with cord and plug and instructions. For 110 volt, 60 cycle AC operation.

A9287.
List, $24.00.
YOUR PRICE **$14.11**

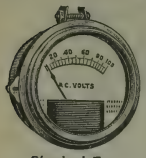
MODEL 430

The Readrite 430 direct-reading Tube Tester exactly as described above, with Triplett Model 221 Meter. Complete in oak case with full instructions. For 110 volt, 60 cycle AC operation.

A9288.
List, $30.00.
YOUR PRICE **$17.64**

READRITE PANEL METERS

MODEL 55 D. C.



Standard Type

The popular and economical Readrite line used extensively in radio and electrical work where an efficient low-priced meter is required. Accuracy assured within 5%. D.C. meters are polarized vane, solenoid type. Require 2⅝" mounting hole. Have easy reading white dial, black lettering and full nickel-finish metal shell. Clamp included to hold meter tight against panel. Screw connections with binding nuts on rear. 2¼" diameter. Readily convertible for outside flange mounting with use of No. 65A Flange Ring. Zero adjustment type has screw on meter face to control idle position of needle.

Zero Adjustment

D. C. VOLTMETERS

Without Zero Adjustment No.	Net Each	Resist Ohms	Volts	With Zero Adjustment No.	Net Each
A7350	59c	30	0-1	A7375	73c
A7351		175	0-3	A7376	
A7352		550	3-0-3	A7377	
A7353		410	0-5	A7378	
A7354	59c	550	0-6	A7379	73c
A7355		850	0-8	A7380	
A7356		1475	0-10	A7381	
A7357		2914	0-15	A7382	
A7358		1625	0-25	A7383	
A7359	$1.62	7720	0-25	A7384	$1.76
A7360	.59	3250	0-50	A7385	.73
A7361	1.91	15440	0-50	A7386	2.06
A7362	.88	6500	0-100	A7387	1.03
A7363	1.91	30888	0-100	A7388	2.06
A7364	1.03	9750	0-150	A7389	1.18
A7365	1.91	46320	0-150	A7390	2.06
A7366	1.91	92640	0-300	A7391	2.06
A7367	2.65	154400	0-500	A7392	2.79
A7368	3.23	231600	0-750	A7393	3.38
A7369	1.32	16200	0-8-160	A7394	1.47
A7370	2.65	92640	0-60-300	A7395	2.79
A7371	3.23	180000	0-20-60 -300-600	A7396	3.38

D. C. MILLIAMMETERS

Without Zero Adjustment No.	Net Each	Resist Ohms	M. A.	With Zero Adjustment No.	Net Each
A7400	$1.32	2160	0-5	A7414	$1.47
A7401	1.18	700	0-10	A7415	1.32
A7402	.59	295	0-15	A7416	.73
A7403	.59	85	0-25	A7417	.73
A7404	59c	20	0-50	A7418	73c
A7405		5.5	0-100	A7419	
A7406		3.3	0-150	A7420	
A7407		1.9	0-200	A7421	
A7408	$0.59	.8	0-300	A7422	$0.73
A7409	.59	.5	0-400	A7423	.73
A7410	1.18	175	0-20-100	A7424	1.32
A7411	1.18	305	0-15-150	A7425	1.32

D. C. AMMETERS

No.	Net Each	Type	Amps.	No.	Net Each
A7428	59c	380	0-1	A7438	73c
A7429		336	0-3	A7439	
A7430		381	0-5	A7440	
A7431		338	0-10	A7441	
A7427	$0.88	382	0-25	A7437	$1.03
A7426	1.47	383	0-50	A7449	1.62
A7432	59c	101	1-0-1	A7442	73c
A7433		303	3-0-3	A7443	
A7434		606	6-0-6	A7444	
A7435		110	10-0-10	A7445	
A7436		220	20-0-20	A7446	
A7448	$1.18	330	30-0-30	A7447	$1.32

MODEL 55 A. C. METERS

Double vane repulsion type. Accurate within 10%. Voltmeters have resistance up to 100 ohms per volt. Used for checking line voltage, set current drain, etc. Flush mounting clamp-on type.

Voltmeters

No.	Volts	Each
A7450	0-4	$1.62
A7451	0-6	1.62
A7452	0-10	1.62
A7453	0-15	1.62
A7454	0-150	2.65
A7455	0-300	3.23
A7456	0-600	3.82
A7457	0-750	4.56
A7458	0-10-140	2.65

Plug In Line Type

A7459	0-150	$1.91

Milliammeters

No.	M. A.	Each
A7462	0-25	$1.62
A7463	0-50	
A7464	0-100	
A7465	0-250	
A7466	0-500	

Ammeters

No.	Amps.	Each
A7468	0-1	$1.62
A7469	0-3	
A7470	0-5	
A7471	0-10	
A7472	0-50	$2.20

No. 65A FLANGE RING

Will fit over any type Model 55 Readrite meter, converting it for flange mounting. 2¾" flange dia. In black finish. Complete with mounting screws and nuts. Easy to mount.

A7473. List, 15c. NET **9c**

READRITE RESISTANCE METER—MODEL 501

Direct-reading Volt-ohm-meter. Reads 0-10,000 ohms, and 0-4.5 volts. 2¾" flange diameter. Calls for three small flashlight cells, which with resistance to be measured, are connected in series with the meter. Ideal for continuity tests and for testing resistances in receiving sets, and circuits generally.

A7341. List, $2.75. NET..... **$1.62**

RESISTORS

No. 503 Resistor. 1150 ohms resistance to increase No. 501 ohmmeter reading to 60,000 ohms when used with a 22½ Volt battery.

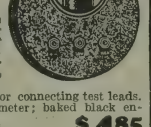
A7343. List, $1.00. NET..... **59c**

504 Resistor. 2,300 ohms, center-tapped, for use with 45 V. "B" to increase reading of Nos. 500, 501, 502 ohmmeters to 100,000 ohms.

A7344. With tip jacks. List, $2.25. NET..... **$1.32**

READRITE OUTPUT METER

MODEL 575



Will reliably indicate output voltage of set for accurate alignment of RF and IF stages. Has internal full-wave copper oxide rectifier. Shows two ranges: 0-5 and 0-50 volts. Provided with tip-jacks for connecting test leads. Metal case, 4½" in diameter; baked black enamel finish. Wt., 4 lbs.

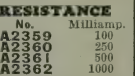
A7348. List, $9.25. NET **$4.85**

MODEL 515 OUTPUT METER

Same as Model 575 above but with Triplett meter. Has range of 2.5-5 volts. 750 ohms resistance per volt.

A7349. List, $16.50. NET..... **$9.70**

RADIO CITY SHUNTS



Individually calibrated to an accuracy of ±1%. Ideal for use with milliammeters such as those having 0-1 scales for increasing their ranges. Capacity of each unit about 1 watt. Negligible temperature coefficient. Size 2¾x⅜" diameter.

27 OHMS METER RESISTANCE

No.	Milliamp.	No.	Milliamp.
A2355	5	A2359	100
A2356	10	A2360	250
A2357	25	A2361	500
A2358	50	A2362	1000

30 OHMS METER RESISTANCE

A2364	5	A2368	100
A2365	10	A2369	250
A2366	25	A2370	500
A2367	50	A2371	1000

50 OHMS METER RESISTANCE

A2373	5	A2377	100
A2374	10	A2378	250
A2375	25	A2379	500
A2376	50	A2380	1000

List, Each, $1.40. NET, EACH **82c**

READRITE TUNING METERS

TM-103

TM-102

TM-121

TM-108

For accurate visual tuning of modern AVC sets. High resistance milliammeters in neat, easy-to-mount cases. These meters indicate exact tuning resonance when needle swings to its farthest point. Assure correct, easy tuning. Four types are available, each with full scale deflections as listed. Model 121 is shadow tuning type. Supplied less escutcheons.

TM-103

Front or bottom illuminated type with opaque dial.

No.	M.A.
A7475	0-5
A7476	0-7
A7477	0-10
A7478	0-15

TM-102

Rear lighting type, with translucent dial.

No.	M.A.
A7480	0-5
A7481	0-7
A7482	0-10
A7483	0-15

TM-108

Needle shadow indicator type with translucent dial.

No.	M.A.
A7485	0-5
A7486	0-7
A7487	0-10
A7488	0-15

TM-121

Shadow graph type indicates resonance at narrowest point.

No.	M.A.
A7490	0-5
A7491	0-7
A7492	0-10
A7493	0-15

TUNING METER PRICES

Choice of any type above, less escutcheon. List, $1.50. NET, EACH **88c**

ESCUTCHEONS

A7495. For TM-108, 121.
A7496. For TM-102, 103.
List, 30c. NET EACH..... **18c**

INDUCTION AMMETER

Measures automobile starter current without removing starter cable. Simply place meter over starter cable to indicate amount of current flowing in cable. Meter back has groove to locate cable position. Scale reads 400-0-400 D.C. amperes. Invaluable for detecting shorted or defective starter motors or to locate battery troubles. Attractive black case with nickeled rim.

A7499. Model 444. List, $3.00. NET..... **$1.76**

FULL WAVE COPPER OXIDE RECTIFIERS—5 M. A. Capacity

Miniature type. Converts D.C. meters drawing less than 5 M.A. to A.C. instruments. 7/16" square.

A2285. NET **$2.15**

20 M.A. Capacity

7/16" round. ¾" long. Converts D.C. meters drawing not over 20 M.A. to A.C. types.

A2286. NET **$1.88**

50 M.A. Capacity

¾" dia.; 1½" long. Heavy duty type for use in circuits where current does not exceed 50 M.A.

A2287. NET **$1.75**

CRS COPPER OXIDE RECTIFIERS

Exceptionally small full-wave rectifier for converting D.C. meters for A.C. use. Input 10 volts RMS; output 20 M.A. Ideal for analyzers, test panels, etc.

A2280. NET EACH..... **$2.06**

See page 48 for Precision and Semi-Precision Meter Multiplier Resistors.

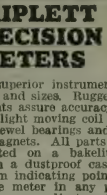
SEE PAGES 135-136 FOR COMPLETE INDEX

METERS ▶ TRIPLETT·BEEDE·WESTON ◀

Model 321 D.C.
Model 331 A.C.

TRIPLETT PRECISION METERS

Dependable superior instruments in a variety of styles and sizes. Rugged D'Arsonval movements assure accuracy within 2%. An extra-light moving coil is used, with sapphire jewel bearings and special chrome steel magnets. All parts are accurately mounted on a bakelite plate and enclosed in a dustproof case. Balanced aluminum indicating pointer permits use of the meter in any position. Equipped with zero adjustment. A.C. meters are movable iron repulsion type.



Model 233 A.C.
Model 223 D.C.

Dependable Triplett Instruments

METER DIMENSIONS

Model 321—3½" Flush mounting; Scale 2⅜" long. Bakelite case.
Model 324—3 1/16" Projection mounting; Scale 2⅜" long. Bakelite.
Model 223*—2" Flush; Scale 1 23/32" long. Metal case.
Model 331—3½" Flush; Scale 2 9/64" long. Bakelite case.
Model 334—3½" Projection; Scale 2 9/64" long. Bakelite case.
Model 233*—2" Flush; Scale 1 23/32" long. Metal case.

* Can be supplied in bakelite cases when specified on special order.

D. C. MILLIAMMETERS

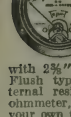
3½ Inch Model 321	324	Net	2 Inch M. A.	Model 223	Net
A8650 / A8651	A8664 / A8665	$4.55	0-1 / 0-1.5	A8678 / A8679	$3.75
A8652 / A8653	A8666 / A8667	3.75	0-5 / 0-10	A8680 / A8681	2.94
A8654 / A8655 / A8656 / A8657	A8668 / A8669 / A8670 / A8671	3.75	0-15 / 0-25 / 0-50 / 0-100	A8682 / A8683 / A8684 / A8685	2.94
A8658 / A8659 / A8660 / A8662	A8672 / A8673 / A8674 / A8676	3.75	0-200 / 0-300 / 0-500 / 0-750	A8686 / A8687 / A8688 / A8690	2.94

D. C. VOLTMETERS
(125 Ohms Per Volt)

321	324	Net	Volts	223	Net
A8691 / A8692 / A8693 / A8694	A8700 / A8701 / A8702 / A8703	$3.75	0-10 / 0-15 / 0-25 / 0-50	A8711 / A8712 / A8713 / A8714	$2.94
A8695 / A8696 / A8697 / A8698 / A8699 / A8710	A8704 / A8705 / A8706 / A8707 / A8708 / A8709	$3.75 / 3.75 / 5.39 / 6.04 / 7.18 / 9.31	0-100 / 0-150 / 0-300 / 0-500 / 0-750 / 0-1000	A8715 / A8716 / A8717 / A8718 / A8719 / A8720	$2.94 / 2.94 / 4.24 / 5.06 / 6.04 / 8.33

D. C. VOLTMETERS
(1000 Ohms Per Volt)

A8722 / A8723 / A8724 / A8725	A8732 / A8733 / A8734 / A8735	$5.39	0-5 / 0-10 / 0-25 / 0-50	A8742 / A8743 / A8744 / A8745	4.24
A8726 / A8727 / A8728 / A8729 / A8730 / A8731	A8736 / A8737 / A8738 / A8739 / A8740 / A8741	$5.71 / 5.71 / 6.53 / 7.18 / 8.98 / 10.45	0-100 / 0-150 / 0-300 / 0-500 / 0-750 / 0-1000	A8746 / A8747 / A8748 / A8749 / A8750 / A8751	$5.06 / 5.06 / 5.71 / 6.53 / 7.84 / 9.31



MODEL 321
0-1 D.C. M.A.

Accuracy assured within 2%. D'Arsonval type design, with sapphire bearings. Calibrated 0-1 with 50 accurate equal graduations. Resistance, 31 ohms. Has zero adjustment. 3½" dia., with 2⅜" scale, and 1¼" deep back of flange. Flush type mounting. Ideal for use with external resistors for conversion to multi-purpose ohmmeter, voltmeter, and milliammeter. Build your own test instruments around this high quality meter.

A8650. List, $7.00.
YOUR PRICE **$4.55**

VOLT-OHM-MILLIAMMETER MODEL 321

A 0-1 Milliammeter (100 ohms resistance) with scales reading 0-10-50-250-500 volts; 0-10-50-250-500 M.A.; and 0-100,000 ohms. For multi-scale testing instruments. Meter only.

A8946. List, $7.50.
YOUR PRICE **$4.90**

We can supply resistors and shunts for all types of meters. Order with deposit, or write for prices.

D. C. AMMETERS

3½ Inch Model 321	324	Net	2 Inch Amps.	Model 223	Net
A8752 / A8753 / A8754 / A8755	A8763 / A8764 / A8765 / A8766	$3.75	0-1 / 0-5 / 0-10 / 0-25	A8773 / A8774 / A8775 / A8776	$2.94
A8759 / A8760	A8770 / A8771	3.75	20-0-20 / 30-0-30	A8780 / A8781	2.94

A. C. MILLIAMMETERS

331	334	Net	M. A.	233	Net
A8805 / A8806 / A8807 / A8808	A8813 / A8814 / A8815 / A8816	$3.75	0-10 / 0-15 / 0-25 / 0-50	A8821 / A8822 / A8823 / A8824	$2.94
A8809 / A8810 / A8811	A8817 / A8818 / A8819	3.75	0-100 / 0-250 / 0-500	A8825 / A8826 / A8827	2.94

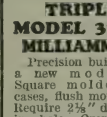
A. C. VOLTMETERS

331	334	Net	Volts	233	Net
A8830 / A8831 / A8832 / A8833	A8842 / A8843 / A8844 / A8845	$3.75	0-5 / 0-10 / 0-15 / 0-25	A8854 / A8855 / A8856 / A8857	$2.94
A8834 / A8835 / A8836 / A8837	A8846 / A8847 / A8848 / A8849	$3.75 / 3.75 / 4.55 / 5.39	0-50 / 0-100 / 0-150 / 0-300	A8858 / A8859 / A8860 / A8861	$2.94 / 2.94 / 3.75 / 4.73
A8838 / A8839 / A8840	A8850 / A8851 / A8852	$7.18 / 8.33 / 10.45	0-500 / 0-750 / 0-1000	A8862 / A8863 / A8864	$6.53 / 7.51 / 9.63

A. C. AMMETERS

331	334	Net	Amps.	233	Net
A8866 / A8867 / A8868 / A8869 / A8870	A8873 / A8874 / A8875 / A8876 / A8877	$3.75	0-1 / 0-2 / 0-3 / 0-5 / 0-10	A8880 / A8881 / A8882 / A8883 / A8884	$2.94
A8871 / A8895 / A8896	A8878 / A8897 / A8898	$4.55 / 5.88 / 8.15	0-25 / 0-50 / 0-75	A8885 / ..... /	$3.75 / ..... / .....

TRIPLETT MODEL 326 D.C. MILLIAMMETERS



Precision built meters in a new modern style. Square molded bakelite cases, flush mounting type. Require 2½" diam. mounting hole. Overall size, 3⅛x2 5/16". Scale length 2⅜". Precision construction; genuine sapphire jewel bearings. D'Arsonval movement, extra light moving coil, etc. Accuracy within 2%.

No.	M. A.	Approx. Res.	NET
A8785	0-1	33	$4.55
A8786	0-5	8.5	$3.75
A8787	0-10	3.1	
A8788	0-25	1.2	
A8789	0-50	.6	
A8790	0-100	.3	3.75
A8791	0-150	.23	
A8792	0-200	.15	
A8793	0-250	.12	
A8794	0-300	.1	3.75
A8795	0-400	.08	
A8796	0-500	.06	

BEEDE METERS

FOUNDATION METER FAN TYPE

You can build an efficient Volt-Ohmmeter tester around this high quality Beede Foundation Meter. It features a new large scale fan-type dial, knife-edge pointer, laterally wound coil, fatigueless type spring, and long, easily-read scales. An unusually accurate and sturdy instrument that will give you long and continuous service. The meter mounts in 2 11/16" diameter round hole. **It has a sensitive 0-1 M.A. movement, 50 ohms internal resistance. Scales are: 0-10-25-50-100-250-500 volts D.C.; 0-1000 ohms-1 megohm.** These scales provide quick and accurate testing. Resistor kit for use with this meter is listed below.

A2330.
YOUR PRICE **$4.41**

MULTIPLIER RESISTOR KIT

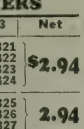
Consists of high quality semi-precision resistors for use with the above meter to secure the indicated scale readings. Resistors are accurate to within 5%. A complete schematic diagram for construction is supplied.

A2331. Resistor Kit. NET..... **$1.65**

SHUNT RESISTORS

A2374. To obtain reading of 0-10 M.A. on above meter.
A2377. To obtain reading of 0-100 M.A. on above meter.
NET, EACH **82c**

BEEDE MILLIAMMETERS MODEL 701



Highly accurate and compact D'Arsonval type meters. Moving coil design. Combine ruggedness with accuracy within 2%. Have zero adjustment, sapphire bearings, aluminum pointers. Flush mounting, 3¼" dia. in metal case.

D. C. MILLIAMMETERS

No.	M. A.	List	NET
A2300	0-1	$6.00	$3.53
A2301	0-10	4.75	2.79
A2302	0-100	4.75	2.79
A2303	0-200	4.75	2.79
A2304	1-0-1	6.00	3.53

VOLT-OHM-MILLIAMMETERS

Multi-scale meters for use as foundation units in "Build-your-own" Volt-ohm-milliammeters. Provide scale ranges most generally used in service and test instruments.

Meter only. Reads 0-1 M.A.; 0-50,000 ohms; 0-15-30-300 D.C. volts.
A2315. MODEL 701. NET..... **$3.53**

Meter only. Reads 0-1 M.A.; 0-2000 ohms; 0-5-250-750 D.C. volts.
A2317. MODEL 701. NET..... **$3.53**

Write for prices for other Beede meters.

METER REPAIR SERVICE

Whether your meter is burned out or damaged mechanically we put it back in good condition. We also restore accuracy to erratic movements. Our special meter service will repair any type of D.C. or A.C. meter. Prices below are representative. Send cash with order. For quotations on services not shown, send meter prepaid.

SERVICE A. Repairs to burned out or open armatures of 301 type 3¼" meters, including polishing of jewels, three point calibration, and correction of needle position.
YOUR COST **$3.75**

SERVICE B. Repair and correction of sluggish or erratic movement, if armature is not damaged. Cleaned and calibrated.
YOUR COST **$2.95**

SERVICE C. If glass is cracked, scratched or broken, we will replace for an additional charge of..... **90c**

Prices above cover only replacement parts specified in each service. Additional parts, such as pointers, springs, zero adjustors, case, etc., will be supplied at the lowest prices.

ADAPTERS · PLUGS *Test Equipment*

9-WIRE OCTAL ANALYZER PLUG AND ADAPTERS

This new plug and adapter kit makes it possible for you to bring your present analyzer up to date, permitting you to handle new metal tubes, as well as the latest glass types. Complete kit contains: 1—8 prong lock-in adapter plug, with 5 ft. of 9 wire cable and dual grid stud; 1—8 prong cable plug and socket, and 5 adapters. Will completely modernize your analyzer.

A1659. ANALYZER KIT COMPLETE. List, $10.00. NET..... **$5.88**

A1650. ANALYZER PLUG ONLY. Small 8-prong octal base plug which plugs into adapters. Has dual grid studs for small and large grid clips. List, $1.75. NET **$1.03**

A1651. Plug with 5 ft. 9 wire cable attached and 8 prong panel plug, with grid plug lead. For use with test panels in the shop. List, $5.00. NET..... **$2.94**

ADAPTERS ONLY

The adapters listed below will handle all tubes. Have 8 hole octal tops, to take 8 prong plug such as listed above. Each adapter uses the RMA numbering system for point-to-point analysis.

No.	PRONGS	List, Each, $1.00. NET EACH
A1653	8 to 4	
A1654	8 to 5	
A1655	8 to 6	
A1656	8 to 7M	**59c**
A1657	8 to 7S	

SPECIAL ADAPTERS

Well-made adapters for use in blocked octal sockets. Absolutely essential for testing many metal tube sets. Each adapter uses the new RMA numbering system for point-to-point analysis. For use with above kit.

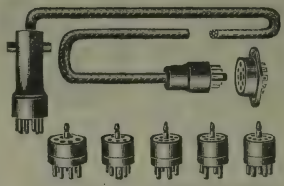
A1627. 8 to 5 Prong Plug; tests 5Z4, 5Y3, 5W4 tube circuits.

A1628. 8 to 5 Prong Plug; tests 6F5 tube circuits.

A1626. 8 to 6 Prong Plug; tests 6C5 tube circuits.

A1625. 8 to 7 Prong Plug; tests 6F6, 6H6, 6J7, 6K7 and 6L7 tube circuits.

List, Each, $1.00. NET EACH..... **59c**



7 PRONG LOCKING TYPE ANALYZER KIT

A new moulded bakelite small pin radius 7 prong plug with detachable handle. Two grid studs, large and small, are supplied, so plug can be used in either metal or glass tube sets. Lock-on feature makes sure, firm contact between plug and adapters. Very small plug base for entering sockets with close shields. Complete kit contains: **1—lock-on 7S prong plug and handle, with 5 ft. of 8 wire cable, 8 prong cable plug, 8 prong panel socket, and 5 adapters.**

A1665. COMPLETE KIT. List, $6.35. YOUR PRICE..... **$3.73**

A1666. Kit similar to above but supplied without 8 prong cable plug and 8 prong socket for cable connection. List, $5.75. YOUR PRICE..... **$3.25**

ADAPTERS ONLY

Adapters designed especially for use with above plug kits. May also be used in connection with any plug of similar characteristics, having lock-on feature, with 7S prong base.

A1660. 7S to 4 Prong Plug.
A1661. 7S to 5 Prong Plug.
A1662. 7S to 6 Prong Plug.
A1663. 7S to 7M Prong Plug.
List, $0.75. NET EACH..... **44c**
A1669. 7S to 8 Octal Prong.
List, $1.00. NET..... **59c**

OCTAL SOCKET ADAPTERS

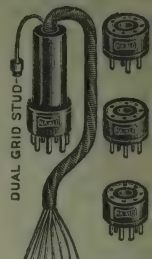
Adapters for octal sockets to be used with the above analyzer plugs. For testing all metal tube circuits. Have small 7 prong latch-lock tops, with the following bases:

A1620. 7 Prong Octal.
A1621. 6 Prong Octal.
A1622. 5 (5Z4) Octal.
A1623. 5 (6F5) Octal.
List, $1.00. NET EACH **59c**

PLUG AND CABLE ONLY

Small 7 prong plug handle and 8 wire cable, with latch-lock feature, same as supplied with above kits.

A1624. List, $2.50. NET..... **$1.45**



NEW ANALYZER MODERNIZING KIT

A new low-priced analyzer modernizing kit with turn-stud lock to bring your present analyzer up to date. Consists of: **1—small 7 prong analyzer plug with 5 foot 8 wire cable attached; plug is equipped with dual grid cap for both metal and glass tubes; 5—adapters for 4, 5, 6, 7M, and new octal 8 hole sockets.** The analyzer plug is small in diameter for insertion in closely shielded sockets. With this kit and your present analyzer you can service all circuits including those with the new octal metal tubes.

A1667. COMPLETE KIT. Includes: 1—7 prong analyzer plug, 5 ft. 8 wire cable, and 5 adapters, as described. List, $5.35. NET **$3.15**

SPECIAL OCTAL ADAPTERS

Additional adapters for blocked octal sockets. For use with above modernizing kit. Have small 7 prong sockets.

A1610. For 7 Prong octal socket.
A1611. For 6 Prong octal socket.
A1612. For 5 (5Z4) octal socket.
A1613. For 5 (6F5) octal socket.
List, Each, $1.00. NET EACH **59c**

ALDEN METAL TUBE TESTING ADAPTER

Type 950 G-E-M

Checks all types of metal and metal-glass tubes when used in any tube checker. Plugs into 36 socket for all tests. 3 octal sockets on adapter accommodate all metal tube types. 2 toggle switches are provided for thorough tests including both plates of the 5Z4, 6H6 and 6N7 double-plate tubes. Etched instruction plate on face.

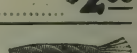
A1674. ALDEN 950-G-E-M METAL TUBE ADAPTER. 3½" dia.; 2¾" high. List, $6.50. NET..... **$3.82**

ALDEN TUBE LEAKAGE AND SHORT TESTER

A new device which tests for leakage and shorts between elements in all 4, 5, 6 and 7 prong tubes. Leakage as high as 1 megohm is indicated by the special neon lamp incorporated in this tester. Operates directly from A.C. line. Contains jacks for using as a continuity tester. Complete with neon lamp, grid lead, cord and plug.

A1675. 9SC. ALDEN TESTER. List, $3.50. YOUR PRICE..... **$2.06**

ANALYZER CABLE



8 and 9 conductor cables of stranded tinned copper wire, each rubber-covered, and with color-coded braid. Cotton braid overall.

A1670. 8 CONDUCTOR. 2 No. 16 and 6 No. 20 wire. PER FOOT..... **9c**

A1671. 9 CONDUCTOR. 2 No. 16 and 7 No. 20 wire. PER FOOT..... **10c**

TEST ADAPTERS FOR METAL TUBES

ANALYZER ADAPTERS FOR METAL TUBES

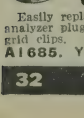
Extend the tests possible with your present analyzer by using these new metal tube adapters. For use with 7S latch plug.

A1669. For testing in all metal tube sockets except 5Z4. 7S latch-lock top, octal base. YOUR PRICE..... **59c**

A1622. For testing in socket of 5Z4, 5Y3, or 5W4. 7S latch-lock plug, octal base. YOUR PRICE **59c**

A1676. For all octal base tubes except 5Z4, 5Y3 and 5W4. 8 hole octal top. YOUR PRICE **59c**

A1677. For testing 5Z4, 5Y3 or 5W4 metal tube circuits. 8 hole octal top, 4 Prong base. YOUR PRICE **44c**



DUAL GRID STUD

Attaches to control grid lead of analyzer plug. For metal and glass tube grid clips.

A1684. YOUR PRICE..... **6c**

OCTAL SCREW STUD

Easily replaces one of the large studs on old analyzer plugs having two. For new metal tube grid clips.

A1685. YOUR PRICE..... **6c**

TUBE CHECKER ADAPTERS FOR NEW METAL TUBES

These new metal tube adapters make it possible for you to check the popular new metal and metal-glass tube types in your present tube checker. Not necessary to make any change in wiring of checker.

Cat. No.	To Test	In Socket	Adapter Base
A1781	6A8 6L7	6A7	7S
A1686	6F5	75 or 85	6
A1687	6H6	75 or 85	6
A1682	6C5	37 or 76	5
A1677	5Z4 5W4 5Y3	80	4
A1688	25Z6	25Z5	6
A1689	6X5	84 or 6Z4	5
A1680	6J7 6K7 6F6 6L6 6Q7 6R7 25A6 6D5	77 or 6C6 78 or 6D6 41 or 42 41 or 42 75 85 43 41 or 42	6

YOUR PRICE, EACH ADAPTER..... **44c**

OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDERSOLD

Modernizer ADAPTERS TESTERS

SPEAKER-HEADPHONE SWITCHING ADAPTERS

Connects headphones to set; has switch arranged to cut off speaker when phones are used. Adapters fit under power tubes. Ideal for DX reception, or when speaker is not desired.

Single Output

A5537. 4-Prong Adapter. For self-biased power tube.
A5538. 5-Prong Adapter.
A5539. 6-Prong Adapter.
A5540. For 19 Tube.
A5544. 8-Prong Adapter for 6F6, 6L6.
NET EACH **$1.45**

Push-Pull Output

A5541. 4-Prong Adapter.
A5542. 5-Prong Adapter.
A5543. 6-Prong Adapter.
A5504. 8-Prong Adapter.
NET EACH **$1.63**

EXTRA SPEAKER ADAPTERS

Type 116

To connect additional speakers to any set using Push-Pull 4 prong output tubes, without wiring change.
A2608. PER PAIR... **31c**

Type 111

To connect additional speakers to any set using two 5 prong Pentode power tubes, without wiring change.
A2609. PER PAIR... **37c**

Type 199

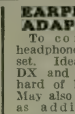
To connect additional speakers to any set using one 5 prong Pentode tube, without wiring change.
A2610. NET **35c**

MIKE & PHONO ADAPTER

Connects phonograph or microphone to set. Has split-cathode connection.

A5505. 5 Prong.
A5506. 6 Prong.
A5508. 7 small.
A5509. 8 Prong.
NET EACH **54c**

EARPHONE ADAPTERS



To connect headphones to any set. Ideal for DX and persons hard of hearing. May also be used as additional speaker adapter for sets with one power tube.
A2611. 5 Prong.
A2612. 6 Prong.
NET EACH **44c**

ADAPTERS FOR 2 VOLT TUBES

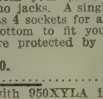
For modernizing old type battery sets with the new 2 volt tubes.

A1755. 419X. Replaces large UV201A base with small UX.
List, 35c. NET..... **21c**

UNIVERSAL ADAPTER

All tube terminals are brought out for quick easy connection.
A5510. 4 prong.
A5511. 5 prong.
A5512. 6 prong.
A5513. 7S prong.
A5514. 8 prong.
EACH. **12c**
..... 17c

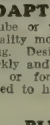
NA-ALD MULTI-DAPTER TYPE 950XYLA



A complete new adapter which enables you to test over 120 types of tubes with your present tester. Has no leads, no wires, no jacks. A single toggle switch makes all tests. Has 4 sockets for all tubes and a 5 prong plug at bottom to fit your tester. All meters and tubes are protected by a resistance network.
A1756. 950XYLA. List, $5.00.
NET **$2.94**

A1757. 954SGL. For use with 950XYLA if your tube tester has no filament voltage switch. 5 hole top, 4 prong bottom, with grid lead.
List 75c. NET..... **44c**

TEST ADAPTER FORMS MAKE YOUR OWN ADAPTERS



Permits you to construct any style tube or test adapter quickly. The top is a standard high quality molded socket. The bottom is a standard tube base plug. Desired connections from top to base can be made quickly and easily. Indispensable for modernizing equipment or for connecting phono, mike, etc., to sets. Screw supplied to hold top and bottom together. Easy to assemble.

SOCKET (TOP)

No.	Holes	NET EACH
A1880	4	**12c**
A1881	5	
A1882	6	
A1883	7M	
A1884	7S	
A1885	8 OCTAL	....18c

PLUG (BOTTOM)

No.	Prongs	NET EACH
A1886	4	**8c**
A1887	5	
A1888	6	
A1889	7S	
A1890	8 OCTAL	....12c

DUAL GRID CAP

Double clip permits grid cap connections to be made on both the regular glass style or the new metal tubes. Completely insulated in molded housing.
A1672. NET..... **12c**

GRID CAP ADAPTER

Special adapter for use with any standard single control grid cap to permit contact with new small metal tube cap.
A1673. NET..... **9c**

MODERNIZER ADAPTERS

BRING ANY SET UP-TO-DATE BY INSTALLING NEW TYPE TUBES

Installation of new type tubes in old sets offers new profit-making opportunities for servicemen. No change in sockets or wiring necessary. Merely insert adapter in tube socket, and place new type tube in adapter. All sets using glass tube types listed below can be modernized in a few seconds with these new adapters. Latest type glass tubes increase sensitivity and power. Greater stability and better selectivity are made possible by the new metal tubes. For all circuits. First modernize your own set; then sell your customers. These adapters are real money-makers.

ADAPTERS FOR NEW METAL TUBES

Replace 25Z5 with Metal Tube 25Z6
For using the new metal 25Z6 tube in place of glass type 25Z5 tube in A.C.-D.C. radio circuits. Better results can be obtained by this change.
A1728. YOUR PRICE. **44c**

Replace 75 Triode with Metal Tube 6F5
For using the metal 6F5 tube in place of the triode section only of the glass 75 tube.
A1735. YOUR PRICE. **44c**

Replace 84 or 6Z4 with Metal Tube 6X5
Use the new 6X5 metal rectifier tube in place of the old 84 or 6Z4 tubes. Made especially for use in auto radios. The added mechanical strength of the metal tubes, as well as the complete shielding, make them particularly suitable for auto radios.
A1727. YOUR PRICE. **44c**

Replace 37, 76 with Metal Tube 6C5
Use the new metal 6C5 or 6J5 tube in place of the type 76 or 37 tube. You can obtain better results with metal tubes in any circuit. Modernize now.
A1733. YOUR PRICE. **44c**

Replace 77, 6C6, 6D6, 41 etc., with 6J7, 6K7, etc.
Take advantage of the higher gain and stability of the new metal tube types 6J7 and 6K7. Replace 77 and 6C6 glass tubes with 6J7; 78 and 6D6 with 6K7. This adapter also makes possible the use of the 6F6, 6L6 or 6K6 metal pentode in place of type 41 and 42 glass tubes, or 25A6 in place of a 43.
A1730. YOUR PRICE... **44c**

Replace 6A7 with Metal Tube 6A8
For using the metal 6A8 tube in place of the glass 6A7 type.
A1731. YOUR PRICE.. **44c**

Replace 80 with Metal Tube 5Z4
This adapter allows you to replace type 80 tubes with the new 5Z4. Better heat dissipation results from the use of the metal tube as a rectifier.
A1737. NET **44c**

Small Grid Cap Adapter
Adapts standard grid clip for use with small metal tube cap.
A1673. YOUR PRICE.... **9c**

ADAPTERS FOR NEW GLASS TUBES

Replace 224 with 57; or 35, 51 with 58
For using 57 in place of 24; 58 in place of 35 or 51; 77 in place of 37; or 78 in place of 39/44.
A1739. YOUR PRICE **29c**

Replace 45 with 47
For using 47 in place of 45 tube. 5 hole top, 4 prong base. Plate and screen connected together.
A1740. YOUR PRICE **29c**

Replace V-199 with X199 or 230
For using 4 prong UX-199 or 30 tube in UV-199 socket.
A1741. YOUR PRICE. **44c**

Replace 80 with 82
For using M.V. 82 in place of 80 tube. 4 hole top; 4 prong base. Has suitable resistance connected in series with filament for required 2.5 volts.
A1742. YOUR PRICE. **44c**

Replace 45 with 59
For using 59 seven prong power tube in place of 45. Less hum; more power.
A1743. YOUR PRICE. **44c**

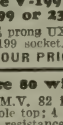
Replace 45 with New 2A5 Tube
For using 6 prong 2A5 Pentode in place of 45. Has special resistor built in.
A1744. YOUR PRICE. **44c**

Replace 47 with New 2A5

For using 6 prong 2A5 Pentode in place of 47. Has filament resistor.
A1746. NET..... **44c**

Replace 47 with 59
For using 59 Pentode power tube in place of 47. More power; less hum.
A1745. YOUR PRICE.. **44c**

Replace Kellogg 401 with 27



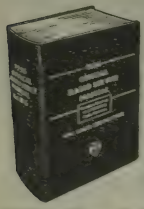
For using 27 tube in place of expensive overhead heater type. 5 hole top; 4 prong base. Contains resistance to cut filament to required 2.5 volts.
A1747. NET..... **58c**

Replace Kellogg 401 with 56
For using 56 tube in place of Kellogg 401 overhead heaters. Increases sensitivity at lower cost.
A1748. YOUR PRICE **58c**

Replace Kellogg 403 with 2A5
For using 2A5 Pentode in place of Kellogg 403 overhead heater type.
A1749. YOUR PRICE **58c**

BOOKS *for Every Service Need*

GERNSBACK'S OFFICIAL MANUALS



NEW VOLUME NO. 6

New 1936 edition of the famous Official Radio Service Manual. An excellent investment for the Service Man who wants to keep up with the latest in Service Data. Has 1200 pages packed with the information you need. 2500 illustrations. Arranged for ready reference.

COMPLETE 1935 TO 1937 SET LISTING

Covers all available diagrams of sets built during 1935 and 1936, plus many advance 1937 models. Miscellaneous diagrams cover speaker, phonograph, and IF and RF coil connections. Contains step-by-step alignment procedure on many of the newer complex all-wave and high-fidelity receivers. Contains no repetition of data appearing in any previous manual. Has complete "Trade Name" index, and a tube chart covering all tube types ever made for receivers. Quick reference cumulative index covers all six volumes including all sets built from 1931 to early 1937. Leatheroid looseleaf binder.

A5206. YOUR PRICE, VOLUME 6, POSTPAID..... **$6.95**

VOLUME 5

Over 1000 pages of complete radio service data. Has over 3000 illustrations. Includes circuit diagrams and specific service data for all receivers placed on the market after Volume 4. Includes data on IF's; resistance, voltage, and alignment; color codes, socket layouts, etc. Completely indexed with cumulative index.

A5210. YOUR PRICE, VOLUME 5, POSTPAID..... **$6.50**

VOLUME 4—1934 EDITION

Brings the Official Manual up to 1934. Over 400 invaluable pages and more than 2000 diagrams and charts of all commercial receivers. Specifies exact values of all parts; shows parts layouts as well as schematics; gives voltages and trouble-shooting suggestions. Has sections on AC-DC, Auto radio, S.W. and P.A. Includes 24 Question and Answer Coupons. Flexible binder, 6x12 in. Shpg. wt., 4 lbs.

A5211. YOUR PRICE, POSTPAID..... **$3.00**

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Contains complete service data on practically all 1932-1933 receivers. Over 750 pages with more than 2000 illustrations. Valuable data on S.W., test equipment, tubes, noise elimination, auto radio, etc. Loose-leaf cover. Shpg. wt., 5 lbs.

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VOLUME 2—1932 EDITION

A complete directory of 1931-1932 receivers. 1000 pages of valuable standard set data, including trade discussions of the superhet circuits and its service problems. More than 2000 diagrams, charts and illustrations. Shpg. wt., 5 lbs.

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The first of the Radio Service Manuals. Covers all receivers made between 1922-1931. Over 1500 diagrams and illustrations on more than 650 pages. Contains fundamental data on service technique and test methods. Wt., 5 lbs.

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A5207. YOUR PRICE, POSTPAID.. **$16.98**

OFFICIAL RADIO SERVICE HANDBOOK

Every Serviceman should have a copy of this book. 1000 pages of Circuit theory and analysis, Short Cuts of Trouble Shooting and Repairing, Modernization and Installation Data, Service Notes and Field Data, etc. Contains valuable data covering 1,000 Radio Set models. Size 6x9". 750 illustrations. Cloth bound.

A5215. YOUR PRICE, POSTPAID..... **$3.95**

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VOLUME 1

Contains diagrams for every standard refrigerator, describing trouble-shooting, refrigerants, automatic equipment, valves, etc. 450 pages. 1200 illustrations. 9x12. Wt., 4 lbs.

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Two loose-leaf flexible covered volumes covering practically all standard auto radio circuits. Data on trouble-shooting, noise suppression, installations, "turret-top" jobs, suppressorless sets, etc. Vol. 1 has 200 pages and 500 illustrations: with service notes for sets to 1934. Vol. 2 has 240 pages and 500 illustrations covering models from 1934 to 1935. Wt., 3 lbs.

A5208. VOLUME 1.
A5209. VOLUME 2.
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These six complete volumes cover the entire line of RCA-Victor receivers from 1923 to 1936. Complete diagrams, parts lists, service notes, etc., conveniently arranged for instant reference. Attractive stiff fabric covers. Shpg. wt., 5 lbs. each.

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A7591. 1931-32 Service Notes.
A7590. 1933 Service Notes.
A7604. 1934 Service Notes.
A7616. 1935 Service Notes.
NET EACH **$1.25**

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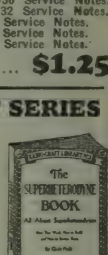

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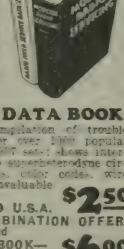

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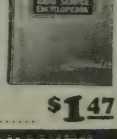

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Covers sets from June, 1932, to June, 1933. Includes chronological catalog and index of more than 8000 sets made between April and 1933. Contains point-to-point resistance data.

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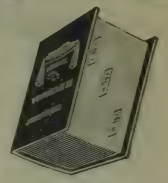

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By John F. Rider

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Here is one book that every Serviceman, Experimenter and Amateur should have. Presents latest authoritative information on the practical application of the Cathode Ray Oscillograph to servicing and other problems. Contains a complete discussion of the theory and operation of cathode ray tubes and associated equipment. Profusely illustrated with actual patterns of patterns and images produced under operating conditions and tests. Size 6"x9"; 128 pages. Wt., 4 lbs.

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An authoritative handbook, each section prepared by an expert. New 2nd edition. Has technical data on all fields and aspects of radio—new tubes, circuits, television, sound systems, receiving and transmitting systems, etc. 850 pages; hundreds of new illustrations.

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Latest edition. Contains 3 valuable sections; one on Sound Amplifiers, one on Transmitters, one on Service Problems. Packed with diagrams, service hints, parts lists, etc. Tells how to build test equipment, amplifiers, and transmitters.

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A complete and thorough book on electronic television. Full of information, wiring diagrams, photos, and easy-to-understand descriptions of types of equipment. Tells how to build electronic television is, and answers all your questions about it. Contains information never before available to the Engineer, Amateur, Experimenter, and Technician. Written by a recognized authority. Size 6"x9". Approx. 200 pages.

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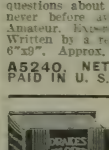

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The standard reference book for radio men. This latest edition covers the whole field of radio and electronics in one handy volume. Contents: Radio Transmission and Reception, Sound Pictures, Television, Photo-electric Devices, Dictionary, 1700 headings, 1178 illustrations, 295 tables and graphs. Heavy cloth binding.

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BURGESS RADIO BATTERIES KNIGHT

BURGESS BATTERIES

COMBINATION PLUG-IN and CLIP TYPE "A" "B" and "C" BATTERIES

A world-famous line of batteries carried by all major expeditions in recent years. Proved to be absolutely moisture- and climate-proof. Built to rigid specifications. Meets all industrial and government laboratory requirements. Now available with plug-in connector as well as Fahnestock clips. **Connectors are 5c extra. Specify connector A1175 for all 45 volt batteries; A1176 for 22½ volt battery; A1177 for 4½ volt battery.** Unusually large current storage capacity enables Burgess batteries to give at least 1000 hours of normal service.

Catalog No.	Factory No.	Volts	Shpg. Wgt.	Unit Pkg.	List Price	Single Net Price	Unit Pkg. Net Price
SUPER "B" BATTERIES							
A1101	21308	45	16	6	$2.95	$2.17	$1.97
A1102	22308	45	10½	6	1.95	1.44	1.31
STANDARD "B" BATTERIES							
A1103	10308	45	14	6	$2.25	$1.66	$1.51
A1104	2308	45	9½	6	1.75	1.30	1.18
A1105	*5308	45	4	5	1.50	1.10	1.00
A1106	*2156	22½	5½	5	1.50	1.11	1.01
A1107	*4156	22½	1½	4	.75	.55	.50

STANDARD "C" BATTERIES

Standard small-size batteries designed primarily to meet bias application requirements. The 22½ Volt unit is also ideal as "B" supply for portable receivers, hearing-aids, or other devices that may require this voltage. 4½ and 7½ volt units are useful for supplying voltage to microphones, and as filament supply for battery type tubes. **Available with plug-in connector—see paragraph above.**

A1108	5156	22½	2	4	$0.85	$0.63	$0.57
A1109	2370	4½	1½	10	.40	.30	.27
A1110	*5540	7½	1	4	.65	.48	.44
A1111	*5360	4½	½	4	.40	.30	.27

* Not available with Plug-in feature.

PLUG-IN "B" AND "C" PACKS

FOR PHILCO 36 AND 36A							
A1127	G90-D6	135	44½	1	$8.95	$6.26	$6.26
FOR PHILCO 34, 34A, 39, 39A							
A1128	G90-D8	135	44	1	$8.95	$6.26	$6.26
FOR GRUNOW 502 AND 503							
A1129	10908	135	40	1	$7.50	$5.25	$5.25

DRY CELL "A" BATTERIES

Two new 1½ volt batteries for radio use. Ideal for use as filament or microphone supplies. No. 4FA is a smaller, lighter unit than the old No. 6 dry cell, but equal to it in both performance and capacity. No. 44 is a small, compact battery similar to a No. 6 dry cell, but much smaller, with slightly less current capacity. Either type is suitable for replacing No. 6 cells. With screw type terminals.

Catalog No.	Factory No.	Volts	Shpg. Wgt.	Unit Pkg.	List Price	Single Net Price	Unit Pkg. Net Price
A1118	4FA	1½	2 lb.	20	40c	30c	27c
A1113	44	1½	11 oz.	1	35c	24c	24c

TUBULAR FLASHLIGHT UNI-CELLS

A1116. No. 1. 1½ volts. Size 1⅞x1 in. Baby type.

A1117. No. 2. 1½ volts. Size 2⅝x1⅝ inches. Standard type.

List, 10c. NET, EACH **6½c**

BURGESS 3 VOLT DRY "A" BATTERY

A new 100% dry "A" battery developed especially for 2 volt battery sets. Does not require recharging or filling with water; ready for immediate use. Provides 400 hours service at ½ ampere discharge 3 hours daily.

SCREW TERMINALS

Ideal for use in trailers, boats, etc., where an easily replaced source of "A" voltage is required. Convenient, compact and easy to handle. Attractive mahogany finish. Size, 11½"x4"x4⅞". Weight, 14 lbs. **NOTE:** Reducing resistor is necessary when used with 2 volt set having no voltage regulating device.

A10020. List, $3.30. YOUR PRICE..... **$2.21**

A1177. Tapped reducing Resistor. NET.....25c

KNIGHT BATTERIES

NEW PLUG-IN TYPES

A first quality line of batteries sold exclusively under the Knight name, now supplied with the new convenient plug-in connector. Connector is 5c extra. Specify A1175 connector for all 45 volt batteries. Made of highest quality materials, well-designed and adequately protected against internal shorts. Our quick turnover assures you of constantly fresh stocks.

89c

STANDARD 45 VOLT "B"

A very popular "B" battery of standard 45 volt design, with tap at 22½ volts. Sturdy and dependable; will give long life and noiseless operation. Size, 7⅜"x6"x3". Supplied with plug-in receptacle. Designed for sets using up to 6 tubes. A big value that will bring you repeat business. Shpg. wt., 10 lbs.

A1152. Less plug. NET..... **89c**

A1175. Plug. NET.....5c

$1.19

45 VOLT HEAVY-DUTY TYPE

A powerful battery built for heavy-duty service, especially for sets using power output tubes. Current capacity is high, assuring long, dependable noiseless service. Well-designed, and of very sturdy construction. Supplied with new handy plug-in type terminal receptacle. Size, 6¾x7⅝x4". Shpg. wt., 12 lbs.

A1151. Less plug. NET **$1.19**

A1175. Plug. NET.....5c

45 VOLT EXTRA HEAVY-DUTY TYPE

A large, over-sized battery designed to give the maximum obtainable service; recommended for use with battery sets having more than 6 tubes. The exceptionally long life of this battery will result in actual savings in battery replacement cost. Size, 8½x4⅝x7¼". Shpg. wt., 16 lbs.

A1157. Less plug. YOUR SPECIAL PRICE..... **$1.74**

A1175. Plug. NET.....5c

22½ VOLT "B" AND "C"

A high quality 22½ volt "B" and "C" battery attractively priced. Tapped to supply 22½, 16½ and 3 volts. With plug-in receptacle. For use as tapped "C" battery or as "B" battery in portable sets. Size, 4x2½x2⅝". Shpg. wt., 2 lbs. Plug is 5c extra.

A1154. Less plug. NET..... **57c**

A1176. Plug. NET.....5c

LOW-COST 4½ VOLT "C" BATTERY

A compact "C" battery designed for long life and lasting service. Tapped at 3 volts. Ideal for microphone supply, filament voltages, etc. Supplied with new plug-in receptacle. Plug A1177 at 5c additional. Size 4x3x1¼". Shpg. wt., 1 lb.

A1153. YOUR SPECIAL PRICE..... **21c**

A1177. Plug. NET.....5c

FLASHLIGHT CELLS

Long-lived, high quality cells for all tubular flashlights.

NO. 1 UNIT CELL

A1158. Baby size for small flashlights. 1" dia. x 1⅞" long.

NO. 2 UNIT CELL

A1159. Regular size for standard flashlights. 1⅝" dia. x 2⅝" long.

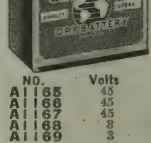
List, 10c. EACH... **4c**

10 FOR 35c

NO. 6 DRY CELL

A high grade all-purpose standard 1½ volt dry cell, for use on buzzers, door-bells, ignition systems, etc. Recovers quickly to normal voltage even after heavy drain. With brass binding posts and nuts. Size, 6x2½". Shpg. wt., 2⅝ lbs. An excellent value in a power-packed quality dry cell. Carry a stock of these quick-moving batteries.

A1150. YOUR PRICE **19c**



GENERAL MIDGET PORTABLE "A" & "B" BATTERIES

Extremely small, light-weight portable batteries. For use in portable radio receivers and transmitters, transceivers, monitors, hearing aids, weather balloons, pocket radio sets, etc. The approximate rating of A1165 is 190 MA hours; A1166 is 400 MA hours; A1167 is 1000 MA hours; A1169 is 8 ampere hours; A1168 is 15 ampere hours. A1166 and A1167 are tapped at 22½ volts. All others are untapped.

NO.	Volts	Lgth.	Width	Ht.	Wt.	List	NET
A1165	45	3"	x1¼"	x3⅜"	11 oz.	$1.75	$1.15
A1166	45	3⅝"	x2¼"	x3⅜"	22 oz.	2.00	1.29
A1167	45	4½"	x2½"	x5¼"	50 oz.	1.75	1.15
A1168	3	3⅛"	x1⅝"	x4⅝"	28 oz.	.80	.51
A1169	3	2 9/16"	x1 9/16"	x4 11/16"	16 oz.	.50	.32

BATTERIES • BATTERY CHARGERS

NEW EVEREADY AIR CELL "A" BATTERY

Especially designed and intended only for use with 2 volt "Air-cell" battery sets. Operates on a new principle using air as a depolarizer to maintain constant voltage and to give long life. A600 has new plug-in feature.

ECONOMICAL—CONVENIENT

Costs less to operate than any other "A" battery. Now offered at a reduced price. Both Air Cell batteries listed below are rated at 600 ampere hours and have a useful life of approximately 1000 hours. The A-600 type is for sets with a maximum current drain of 600 M.A. The SA-850 is for sets having a maximum drain of 750 M.A. In leak-proof cases, 10⅞x6⅝x9⅞". Wt. 24 lbs. (Not mailable.)

A10025. No. A-600. NET $4.17. Less 2%..... **$4.09**

A10026. SA-850. Heavy-duty (750 M.A.); for multi-tube sets. Wt. 29 lbs. NET, $5.25. Less 2%..... **$5.15**

"A", "B" and AIR CELL BATTERY TESTERS

Inexpensive, portable type battery testers. Will test "B" Batteries, Dry Cells, Storage Batteries, etc. Air Cell tester indicates condition of Air Cell Batteries as "Good" or "Bad"; also aids in determining future life of battery. Unusual values.

A6260. STORAGE BATTERY TESTER. YOUR NET PRICE..... **59c**

A6261. 0-35 Amps. For testing dry cells. YOUR PRICE..... **18c**

A6262. 0-50 Volts. For "B" Batteries. YOUR PRICE..... **52c**

A6263. Combination 0-40 Amp. and 0-50 Volts. NET..... **68c**

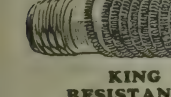
A7340. Air Cell Battery Tester. YOUR NET PRICE..... **$1.61**

32 VOLT SUPER "A" ELIMINATORS

Designed for use with sets using 2 Volt, 4 Volt, or 6 Volt tubes. Eliminates "A" batteries; provides proper filament voltage from 32 Volt Light System. Correct voltage is always assured by means of built-in regulator dial and volt-meter. Two models are available: one for 2 or 4 Volt tubes; the other for 6 Volt tubes. Not suited for sets with built-in "B" eliminators, or from 110 V. line. For 32 Volts D.C. only. Wt. 2 lbs.

A2260. For 2 and 4 volt tubes. **$3.82**

A2261. For 6 volt tubes. List, $6.50. NET EACH.....



KING COLE RESISTANCE COILS

6-VOLT "A" SUPPLY FROM 32-VOLT SYSTEMS

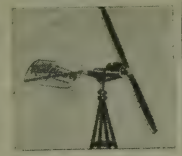
Delivers 6 Volt "A" current supply directly from 32 Volt D.C. systems. For all types of battery sets. When pilot light is used in your set, consider it as one 201A tube. Wt. 1 lb.

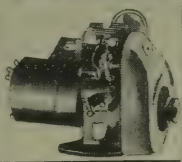
		NET EACH
A2262.	For 5—¼ amp. tubes.	
A2263.	For 6—¼ amp. tubes.	
A2264.	For 7—¼ amp. tubes.	**$1.18**
A2265.	For 8—¼ amp. tubes.	

A2266. For charging 6 volt batteries from 32 volt systems. List, $2.50. NET EACH..... **$1.47**

NEW WINDCHARGER AND RURAL POWER

See Pages 140-141 for Complete Listing of America's Most Dependable 6 Volt Plants and Windcharger. The new perfected Rurl-Power Windcharger is fully described on page 141. Packed with exclusive new features that assure dependable operation.





New Standard and DeLuxe Rurl-Power 6 Volt Plants Are Described in Detail on Page 140. More dependable; lower-priced—these are the world's finest 6 Volt Plants. Also see our complete line of profit-building battery sets on Pages 137 to 143.

NEW HOMCHARGER 5-3 AMP. BOOSTER

A new booster type battery charger for auto or home use at a low price. Has battery connector bracket for steering post mounting. Easy to hook up. Operates automatically with taper charge from 5 to 3 amperes. Filtered against radio interference. For 110 V. 60 cycles A.C. Shpg. wt. 8 lbs.

A10040. List, $7.50. YOUR PRICE..... **$4.41**

LARGE 6 AMP. HOMCHARGER

A new vibrator type charger for all 6-volt storage batteries. Ruggedly made; self-polarizing; entirely automatic in operation. Charges quickly at 6 ampere rate. Works from 110 volt, 60 cycle A.C. current. With cord, plug, car clamp, and cables. Shpg. wt., 11 lbs.

A10041. List, $12.50. NET..... **$7.35**

NEW HI-RATE HOMCHARGER

A new heavy-duty charger designed especially to provide a fast, high-rate charge. Automatic tapering feature assures safety at fast charge. Uses no more total current than smaller chargers. Ideal for charging large batteries, as used in boats, trucks, busses, etc. Fast charging rate provides 10 Amps. Complete with Ammeter, 10 ft. approved cables, De-Luxe dash receptacle. Works from 110 volt, 60 cycle A.C. Shpg. wt., 15 lbs.

A10037. NET..... **$11.47**

ADD-A-CHARGER HOMCHARGER

A revolutionary new charger of compact, high-quality construction. One unit will handle 2 to 3 batteries per 24 hour period; additional units may be easily added if greater capacity is desired. Ideal for garages, battery service stations, etc. Built-in filter eliminates radio interference; self-polarizing feature prevents "reverse" charging. For 110 Volt, 60 cycle A.C. operation. With A.C. cord, cables, clips, instructions, etc.

A10038. NET..... **$12.49**

SERV-A-CHARGER HOMCHARGER

A10039. Similar to the Add-A-Charger above, but with longer charging cable, and with charging plug instead of clips. A neat receptacle provided mounts on car dash, for charging car battery without removing floor boards. NET..... **$13.47**

VESTA 6 VOLT STORAGE BATTERIES

Heavy-duty, solidly constructed, leak-proof batteries that deliver maximum power. Thick plates, carefully sealed cells; built for long, enduring, trouble-free service. With radio type terminals. (Not mailable; shipped express or freight.)

39 PLATE

A10013. Shpg. wt., 40 lbs. YOUR SPECIAL PRICE..... **$5.10**

45 PLATE BATTERY

A10015. Shpg. wt., 42 lbs. YOUR SPECIAL PRICE..... **$6.25**

HEAVY-DUTY 51 PLATE

A10017. Less handle. Shpg. wt., 44 lbs. YOUR SPECIAL PRICE..... **$7.40**

These batteries may be had with auto terminals at prices quoted. Send cash with order, and specify "with Auto Terminals."

SPECIAL 6 VOLT HEAVY-DUTY BATTERIES

Particularly designed for lighting service. Superior design and quality construction provide long, trouble-free service. Ideal for use with a Windcharger or Rurl Power unit; offers lighting service as convenient as that from power lines. Not mailable.

A10021. 51 PLATE. For radio and not more than 1—25 watt lamp or 2—15 watt lamps. Shpg. wt., 55 lbs. YOUR PRICE..... **$10.45**

A10022. 63 PLATE. Medium duty. For radio and 2—25 or 4—15 watt lamps. Shpg. wt., 65 lbs. YOUR PRICE..... **$14.45**

A10023. 75 PLATE. Heavy-duty. For radio and up to 3—25 or 6—15 watt lamps. Shpg. wt., 75 lbs. YOUR PRICE..... **$18.95**

HEAVY-DUTY 6 VOLT GLASS BATTERY

A deluxe battery in glass cases. 39 heavy-duty, extra-thick plates. Non-leaking; ideal for use as radio or lighting service battery. Built for a maximum of service; heat dissipation of glass case permits much heavier drain without case damage. Complete with charge hydrometer. Shpg. wt., 125 lbs.

Ship express or freight only. A10024. YOUR PRICE.. **$19.45**

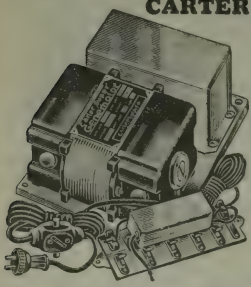
VESTA 2 VOLT RADIO STORAGE BATTERY

A 2-Volt, 19 plate storage battery giving 300 operating hours at ½ ampere, without recharging. In hard rubber container. Size, 7¼x4¹¹⁄₁₆x9¼". Easy to charge. Cost of operation per hour is extremely low. Delivers proper, safe voltage for any battery set using 2 Volt type tubes. Rubber nut and bolt terminals. Has heavy ⅝" plates. (Not mailable.)

A10012. Shpg. wt., 23 lbs. YOUR PRICE..... **$3.95**

GENEMOTORS·CONVERTERS·GENERATORS

CARTER HEAVY-DUTY GENEMOTORS



ELIMINATE ALL "B" BATTERIES

Do away with "B" battery expense. The Carter Genemotor operates directly from your "A" storage battery (or 32 Volt plant) and supplies all "B" voltages necessary for the operation of any battery radio. It is a small precision-built unit with an efficient self-contained filter system. Delivers smooth D.C. inexpensively.

Tapped at 22, 45, 67, 90, 135, 180 Volts

Ideal for home type battery sets. Voltage tap block provides 22, 45, 67, 90, 135, and 180 Volts for operation of any battery radio. Quiet in operation; does not require oiling or attention. Easy to install; compact, only 4½x5½x3" high. Will give years of good service. Wt., 9 lbs.

FOR 6 VOLT OPERATION

A9211. 6280F. Delivers 180 volts D.C. max., at 30 M.A. from 6 Volt storage battery. Drain 2.2 Amps.

A9215. 6220J. Delivers 200 volts D.C. max., at 40 M.A. from 6 volt storage battery. Drain 3 Amps.

List Each, $22.50.

FOR 2 VOLT OPERATION

A9204. Model 2C. For use with a 2 volt storage battery. Delivers 135 volts at 25 M.A. Draws only 3.5 Amps. from battery.

List, $23.50.
YOUR PRICE..... **$13.82**

FOR 32 VOLT OPERATION

A9210. 3280F. Delivers 180 volts D.C. max., at 30 M.A., from any 32 volt source. Draws 15 watts.

A9214. 3280H. Delivers 180 volts D.C. max., at 50 M.A. from any 32 volt light source. Draws only 18 watts.

List Each, $22.50.
NET EACH For Any One of Above Four Models..... **$13.23**

PIONEER GEN-E-MOTORS

Compact, efficient Gen-E-Motors of superior design, built to give long, trouble-free service. Having built-in filters, these units provide smooth, quiet "B" power for radio or amplifier applications. Bearings are sealed in grease, requiring no relubrication; entire unit is floated on rubber mountings, eliminating all vibration. May be quickly and easily installed by any one. Each unit measures only 2⅞"x5⁷/₁₆"x5¹/₁₆"; neat appearing, rugged dust-proof metal case protects the unit from damage. Tapped for only one intermediate voltage. For use with 6 volt storage battery. Shpg. wt., 9 lbs.

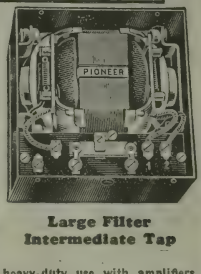
A10220. 5135AT. Delivers 135 volts D.C. at 30 M.A.; tapped at 67½ volts.

A10221. 5180AT. Delivers 180 volts D.C. at 30 M.A.; tapped at 90 volts.

A10222. 5200AT. Delivers 200 volts D.C. at 40 M.A.; tapped at 90 volts.

A10223. 5250T. Delivers 250 volts D.C. at 50 M.A.; tapped at 90 volts.

List Each, $18.50.
NET EACH..... **$10.88**



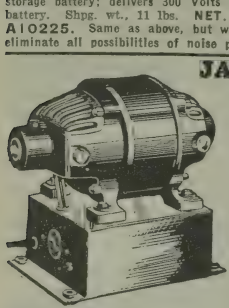
Large Filter Intermediate Tap

HEAVY DUTY MODELS

A10224. A larger unit than the above, built especially for heavy-duty use with amplifiers, P.A. systems, portable transmitters, or any similar application, which require a high D.C. voltage at high current levels. Built for long, trouble-free service, with a minimum of attention. Extremely compact; measures only 5¾"x5⅞"x3⅝"; entire unit is completely enclosed in neat-appearing, rugged heavy metal case, giving full protection against damage. Operates from 6 volt storage battery; delivers 300 Volts D.C. at 100 M.A.; draws 9.5 Amp. from battery. Shpg. wt., 11 lbs. NET..... **$19.98**

A10225. Same as above, but with special filter for high gain amplifiers, to eliminate all possibilities of noise pick-up from the Gen-E-Motor. NET..... **$21.75**

JANETTE ROTARY CONVERTERS



Efficiently converts D.C. current to constant 110 volt, 60 cycles A.C. Permits the operation of A.C. radio sets, sound systems, and other devices and appliances from 32 volt light plants or 110 volt D.C. lines. Compact, dynamically balanced, ruggedly designed, and built for long life. Very quiet in operation; practically no attention is required. The armature employs the superior dynamotor type (double-wound) construction. The field frames are of high quality rolled steel and the field poles are laminated for the very highest efficiency. The easily removable grid covers protect the commutator slip rings and brushes. Quality construction throughout assures freedom from trouble.

WITH BUILT-IN FILTER

The Janette Rotary Converters listed below are equipped with special All-Wave interference filters, for all types of radio receivers. Assure exceptionally quiet reception results on all bands from 500 to 30,000 K.C. (10 to 547 meters). We can also supply converters for special voltages, frequencies or both. Please describe your requirements and we shall quote promptly.

32 VOLTS D.C. to 110 VOLTS 60 CYCLE A.C.

Stock	Output	Input	Mfrs.	YOUR
	Watts	Amps.	Type	PRICE
A10200	80	5.4	CA-25-F	$29.05
A10201	110	6.5	CA-20-F	31.31
A10202	150	8.5	CA-18-F	34.71
A10203	300	15.0	C-13-F	48.67
A10204	500	18.0	CE-14-F	64.14

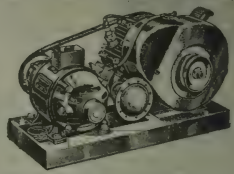
110-115 VOLTS D.C. to 110 VOLTS, 60 Cycle A.C.

Stock	Output	Input	Mfrs.	YOUR
No.	Watts	Amps.	Type	PRICE
A10205	80	1.3	CA-25-F	$29.05
A10206	110	1.9	CA-20-F	31.31
A10207	150	2.4	CA-18-F	34.71
A10208	300	4.0	C-13-F	48.67
A10209	500	6.4	CE-14-F	64.14

WE CAN SUPPLY

All other types of Janette converters, motor-driven and gas-engine generators, etc., at the lowest wholesale prices. Janette products are available in all types and sizes for A.C. radios, sound systems, neon signs and other special applications. Tell us about your needs and we will quote promptly on equipment best suited for them.

PIONEER GAS ENGINE DRIVEN GENERATORS



PROVIDES 110 VOLTS A. C.

Light, sturdy, dependable generators for supplying 110 Volts A.C. for all purposes, at minimum expense. Ideal for operating radios, sound systems, amateur stations, lighting systems, electrical appliances, etc. Also supplies low voltage D.C. for charging 6 volt storage battery. The 4 cycle type air cooled gasoline engine is made by a leading manufacturer. Special muffler reduces noise to a minimum. Built-in governor maintains constant 60 cycle current. Special brush construction assures long life with no commutator wear. Bearings are grease-sealed; require no attention. A.C. and D.C. leads are brought out to a connecting box.

300 WATT MODEL

A10215. The ideal unit for supplying current to small radio units, etc., where the power demand does not exceed 300 watts. Also supplies 50 watts D.C. for battery charging. Foot-pedal starter. Will operate 3 hours on one quart of gas. Extremely compact, measuring only 20"x11"x11". Wt., 72 lbs.
NET **$59.95**

300 WATT Remote Control MODEL

A10212. 300 Watt Gas Engine as above with remote control starting.
NET **$82.45**

600 WATT MODEL

A10216. A large, directly driven generator; will supply current up to a 600 watt load. Measures 37" long, 18" wide and 18" high. Hand-crank starter.
Wt., 280 lbs. NET..... **$123.75**

1000 WATT MODEL

A10217. Will supply sufficient A.C. for practically any purpose. Ideal for large sound trucks, radio transmitters, house lighting systems, etc. Measures 37"x18"x 18". Wt., 280 lbs. NET..... **$180.00**

A10218. RADIO FILTER. Special filter for the Pioneer A.C. generator when it is used to supply power for radio or public address. YOUR PRICE..... **$5.62**

A10213. Filter as above but with ignition shielding.
NET **$7.50**

Easy to Install

Built-in Filter

CARTER COMPACT GENEMOTORS

The smallest complete auto "B" eliminator made. Completely shielded. Has built-in filter. Ball bearings eliminate oiling and adjustments. Easily installed; will deliver full efficiency from a 6 volt battery. May be mounted in any position. Measures only 2⅞"x4"x5". Wt., 6½ lbs.

135 VOLT MODEL

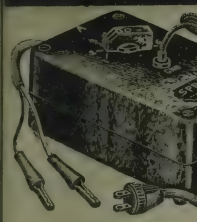
A9213. Operates from 6 Volt battery and delivers 135 Volts at 30 M.A. tapped at 67½ V. Draws 2.2 amps. Replaces 4 "B" batteries.

180 VOLT MODEL

A9212. Delivers 180 volts at 30 MA. tapped at 90V. Works from 6 V. battery at drain of 2.6 amps. Replaces 4 "B" batteries.

List, Each, $16.50.
NET, EITHER MODEL..... **$9.70**

INTERFERENCE ELIMINATORS · BALLASTS



NEW SPRAGUE INTERFERENCE ANALYZER

A compact, portable instrument for the serviceman; quickly and simply tells you what filter units are required for interference suppression. Connects directly into circuit from which the interference originates. Supplied complete with cables, alligator clips, line cord, chart and instructions. Operates either on 110 or 220 volts, A.C. or D.C. In bakelite case, 4½x7x3 inches. Wt., 5 lbs.

A11450. Sprague Interference Analyzer. YOUR PRICE **$9.55**

SPRAGUE INTERFERENCE ELIMINATION CONDENSERS AND CHOKES

Especially designed for eliminating radio interference in the manner indicated by the new Sprague analyzer.

Type IF-11. Dual condenser. For large motors, as in refrigerators, oil burners, etc.
A11455. List, $2.50. NET **$1.47**

Type IF-50. Individual Units. Oil-filled type. For small motors requiring high capacity units.
A11456. List, $1.75. NET **$1.03**

Type IF-21, IF-33. Tubular Condensers. For fractional horsepower motors used in mixers, fans, etc.
A11457. IF-33. List, 75c. NET **44c**
A11458. IF-21. List, $1.00. NET **59c**

Type CH-1 Choke. Specially designed; will carry up to 10 amps. Metal can; self mounting. Can be used on 1 HP. motor.
A11459. List, $1.35. NET **79c**

SPRAGUE CUT-OUT BOX

A compact metal box, with hinged cover and knock-out holes. Ideal for mounting practically any combination of the above interference units. Measures only 6"x6"x3½".
A11451. YOUR PRICE **88c**

REPLACEMENT LINE BALLASTS

Original ballasts to replace similar units in sets designed for their use. These fine Line Ballasts maintain the normal voltage across the primary of the power transformer within limits for efficient operation in spite of line fluctuations over a range of from 95 to 135 Volts. We can supply replacement line ballasts for all sets not mentioned below. Order with deposit, giving make, model and year of set and number of tubes.

No.	Type	Set
A3273	2160	Bremer-Tully.
A3274	2179	Brunswick, Hi-Q30, Scott, Silver, Sonora.
A3275	1516	Majestic 70, 71.
A3276	2408	Clarion, Hi-Q31.
A3277	1508	Majestic 72, 70B.
A3278	1012	Majestic 80, 180, 181.
A3279	1210	Majestic 90, 91, 92, 100.
A3280	6310	United Reproducers, Peerless, Grebe.
A3281	2518	Starck Piano, Belmont.
A3282	2516	Simplex, Baldwin.
A3283	5001	Stewart-Warner 900-61816.
A3284	5002	Stewart-Warner 950-62152.
A3285	5003	Stewart-Warner R100-66756.

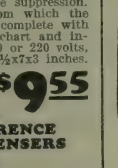
List, $2.50. YOUR PRICE EACH **$1.13**

MILLER ALL-WAVE LINE NOISE FILTER

Incorporates both inductive and capacitative filters for positive results. Condensers are oil-impregnated; chokes are duo-lateral wound. May be used directly at the source of noise on small motors, etc., or at the line connection of the radio set. Simple to install; just plug filter cord into 110 volt outlet and plug radio or appliance cord into filter receptacle; requires no adjustment. Line cord and plug attached. For 110 volt line at not more than 200 watts drain.

A6610. List, $4.00. YOUR PRICE **$2.35**

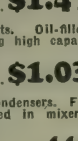
RCA UNIVERSAL WAVE TRAP



Traps out interference which ruins reception of your favorite programs. Eliminates annoying code and long-wave signals, cross-modulation, blanketing, and broad tuning. Will not hamper SW performance. Easily and quickly attached to any radio set. Fully adjustable from 430 to 1700 KC. Completely shielded. Universal mounting.

A7599. RCA No. 13467. List, $2.65. NET **$1.59**

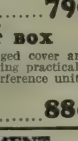
MILLER LINE CHOKES



Duo-lateral wound coils designed especially for line filters. Low distributed capacity and D.C. resistance. Effectively eliminate line disturbances produced by various electrical devices. Especially recommended for filters in transmitter power supply circuits. Use chokes of the correct current carrying capacity. Supplied with mounting brackets.

No.	Microh.	Amps.	NET
A6611	550	2	$0.59
A6612	450	5	1.47
A6613	350	10	1.91
A6614	200	20	2.35

UNIVERSAL RESISTOVOLT

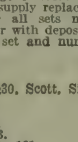


Automatic voltage regulator. Maintains a constant potential of 110 Volts, preventing tube burnouts. Operates automatically and requires no attention. Shpg. wt., 1 lb. each.

A5500. Light Duty for sets up to 6 tubes.
A5501. Heavy Duty for sets over 6 tubes.
List, each, $1.25. YOUR PRICE **56c**

CLAROSTAT A.C. LINE VOLTAGE REGULATOR

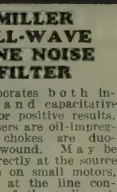
Automatically adjusts line voltage for all radio sets. Compact and durable. Ideal for safe operation on fluctuating voltages. Easy to install. For 110 Volt A. C. sets consuming power as specified. 1 lb. each.



No.	Type	Watts
A3260	O.	Up to 60
A3261	A.	60 to 100
A3262	B.	100 to 150
A3263	C.	150 to 200
A3264	D.	200 to 250

List, $1.75. YOUR PRICE, EACH **49c**

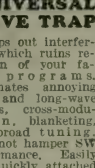
TACO H-F ALL-WAVE LINE FILTER



Contains three complete filter circuits covering short-wave and ultra-short-wave as well as all broadcast bands. May be used on any set or interfering device, AC or DC, drawing not more than 200 watts at 110 volts. Measures only 4x4x5 inches. Easily installed without tools. Equipped with bakelite receptacle and attachment cord with unbreakable rubber plug. Brown-finished metal case.

A7903. List, $7.50. YOUR PRICE **$4.41**

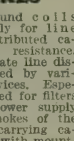
AEROVOX INTERFERENCE ELIMINATOR



Eliminates power line noises and man-made static from electric motors, vacuum cleaners, elevators and other electrical devices that cause more than 75% of radio disturbances. Aerovox Interference eliminator furnishes a real noise-free background for increased radio enjoyment. No tools needed — just plug in. Complete with cord and plug. Shpg. wt., 3 lbs.

A1300. List, $4.75. NET PRICE **$2.79**

BUD INTERFERENCE FILTER

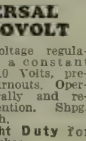


A highly serviceable filter that does away with "man-made interference" such as that caused by bells, refrigerators, etc. Easily and quickly attached by means of cord and plug supplied.

As a capacity filter, there is no danger of burnouts. Built into a neatly finished, all bakelite box. Shipping weight, 1 lb.

A2600. List, $2.65. YOUR PRICE .. **$1.47**

FILTERNOYS INTERFERENCE ELIMINATORS



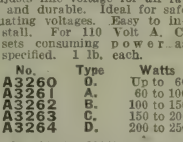
Free your radio reception from annoying interference caused by electrical appliances. Efficient Filternoys listed are inexpensive and quickly installed. All are for use on 110-120 Volts AC or DC.

A7868. ROIDH. Plug-in type for use between radio and power outlet. Eliminates noise pickup through power lines. Will carry 5 amperes. NET **59c**

A7865. ROIH. Rejection type for use where neutral power wire is grounded. Plugs into wall outlet. Will carry 5 amperes. NET **47c**

A7867. FOIDH. For elimination of noise from motors using less than 300 watts. Plug-in type for use between power outlet and motor. NET **59c**

A7866. FOIH. 300 watt capacity. For suppressing noise from high-speed sewing machine, electric razor and food mixer motors. For use between motor and power outlet. NET **47c**

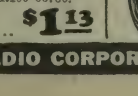


OIL BURNER IGNITION INTERFERENCE SUPPRESSOR

Effectively stops radio interference from oil burners. Two required, one in each high tension lead. With fittings which permit use with all standard ignition transformers.

A7869. NET EACH **88c**

PROTEX TUBE VOLTAGE REGULATOR

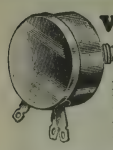


An air cooled, dependable voltage regulator. Fits any standard socket or outlet and will deliver correct voltage to any set. Convenient small size. Will give lasting service. Shpg. wt., 1 lb.

A3970. Lots of 10, $2.85. NET EACH **30c**

VOLUME CONTROLS

UTAH-CARTER VOLUME CONTROLS



Dependable Low Cost Units

A well-known attractively priced selection of high quality volume controls. Insulated shaft type. C—Clockwise; CC—Counter Clockwise. All others with uniform taper. 1½ inch shafts. ⅜ inch bushing. May be had with or without switch.

LESS SWITCH

No.	Ohms	No.	Ohms
A6950	600	A6959	20000C
A6951	1000	A6960	25000
A6952	2000	A6961	50000
A6953	3000	A6962	75000CC
A6954	5000	A6963	100000C
A6955	6000	A6964	200000
A6956	10000C	A6965	250000C
A6957	10000	A6966	500000C
A6958	15000C	A6967	1 Meg. C

List, Each, 90c.
YOUR PRICE, EACH **37c**

WITH SWITCH

No.	Ohms	No.	Ohms
A6968	600	A6977	20000C
A6969	1000	A6978	25000
A6970	2000	A6979	50000
A6971	3000	A6980	75000CC
A6972	5000	A6981	100000C
A6973	6000	A6982	200000
A6974	10000C	A6983	250000C
A6975	10000	A6984	500000C
A6976	15000C	A6985	1 Meg. C

List, Each, $1.25.
YOUR PRICE, EACH **54c**

A6987. A.C. SWITCH only for Carter Replacement Controls. YOUR PRICE, EACH **17c**

UTAH-CARTER MIDGET CONTROLS

Extremely compact. Precision - built wire - wound. Only 1⅞" dia., and ¼" deep back of panel. Dissipates 1 watt. Less knob. Single hole mounting type. May be used for all radio requirements. Ideal where space is at a premium. Large lugs make soldering easy. Save money by using these dependable low-priced midget controls.

POTENTIOMETERS

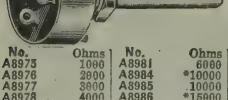
No.	Ohms	No.	Ohms
A9020	6	A9025	400
A9021	10	A9026	500
A9022	15	A9027	1000
A9023	20	A9028	1500
A9024	200		

RHEOSTATS

No.	Ohms	No.	Ohms
A9030	½	A9037	20
A9031	1	A9038	25
A9032	2	A9039	30
A9033	3	A9040	40
A9034	6	A9041	50
A9035	10	A9042	75
A9036	15		

List, 50c.
YOUR PRICE, EACH **28c**

UTAH-CARTER "BABY" CONTROLS



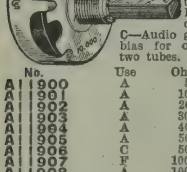
A new type volume and tone control, measuring only 1" in diameter. Supplied only less switch. Ideal for replacement purposes and for midget set building. ¼x1½" shaft; ⅜" bushing. Dissipates 1 watt.

No.	Ohms	No.	Ohms	No.	Ohms	No.	Ohms
A8973	1000	A8981	6000	A8988	25000	A8993	*100000
A8976	2000	A8984	*10000	A8989	*25000	A8994	200000
A8977	3000	A8985	10000	A8990	*30000	A8995	*250000
A8978	4000	A8986	*15000	A8991	50000	A8996	*500000
A8979	5000	A8987	*20000	A8992	†75000	A8997	*1 Meg.
A8980	*5000						

List, Each, 66c.
YOUR PRICE, EACH **39c**

* Clockwise taper. † Counterclockwise taper. Balance are Uniform taper.

METALLIZED VOLUME CONTROLS



A new volume control with superior features. Operates quietly. Only 1¼" diam. In bakelite housing. Uses: A—Potentiometer or rheostat with uniform resistance change; C—Audio grid or antenna shunt; D—Antenna and "C" bias for one tube; F—Antenna and "C" bias for two tubes.

No.	Use	Ohms	No.	Use	Ohms
A11900	A	500	A11918	C	50000
A11901	A	1000	A11919	C	75000
A11902	A	2000	A11920	D	75000*
A11903	A	3000	A11921	A	100000
A11904	A	4000	A11922	C	100000
A11905	A	5000	A11923	A	200000
A11906	C	5000	A11924	D	200000*
A11907	F	10000*	A11925	C	250000
A11908	A	10000*	A11926	C	500000
A11909	D	10000*	A11927	A	500000
A11910	C	10000	A11928	C	500000T
A11911	D	15000*	A11929	C	1 Meg.
A11912	F	15000*	A11930	C	1 Meg.T
A11913	F	20000*	A11931	C	2 Meg.
A11914	D	25000*	A11932	C	3 Meg.
A11915	A	25000	(T controls tapped for tone control circuits.)		
A11916	F	25000			
A11917	A	50000			

NET EACH. Without Switch. Plain cover **59c**

A11937. Single-pole single-throw switch. EACH **29c**
A11936. Single-pole double-throw switch } EACH **35c**
A11935. Double-pole single-throw switch }
*These controls supplied with 300 ohm ½ watt resistor. For replacing controls in grid bias circuits which require fixed minimum resistance.

KNIGHT UNIVERSAL VOLUME CONTROLS

A dependable line of efficient volume controls. Durable; very quiet in operation; moisture-proof. Incorporates special resistance element on bakelite base. Smooth contact action assures quiet operation. Rated at one watt. Case 1⅝ in. diameter; ¼ in. shaft extends 1⅛ in. Code: A=Antenna control. U=Antenna and "C" bias. W="C" bias. P=Potentiometer. T=Tone control or audio shunt.

WITHOUT SWITCH

No.	Ohms
A5960	1000 A
A5961	2000 A
A5958	3000 P
A5962	5000 U
A5963	10000 U
A5959	15000 P
A5964	20000W
A5965	25000 P
A5966	50000 T
A5967	75000W
A5968	100000 T
A5969	250000 T
A5970	500000 T
A5971	1 meg. T

LESS SWITCH. PRICE EACH **28c**

WITH SWITCH

No.	Ohms
A5973	1000 A
A5974	2000 A
A5985	3000 P
A5975	5000 U
A5976	10000 U
A5986	15000 P
A5977	20000W
A5978	25000 P
A5979	50000 T
A5980	75000W
A5981	100000 T
A5982	250000 T
A5983	500000 T
A5984	1 meg. T

WITH SWITCH. PRICE EACH **40c**

ELECTRAD BN ATTENUATORS

A new attenuator of advanced design; accomplishes greater attenuation of true logarithmic character, with much lower noise level than in older types. Ideal for all amplifier requirements which demand smooth, linear attenuation with constant load.

No.	Ohms	No.	Ohms	No.	Ohms
A4500	15	A4504	250	A4508	5000
A4501	50	A4505	500	A4509	7000
A4502	100	A4506	3000	A4510	10000
A4503	200	A4507	4000		

NET EACH. **$1.76**

OHMITE VITREOUS ENAMELED RHEOSTATS

A new line of heavy-duty power-type rheostats. All-porcelain construction. Resistance wire is wound on porcelain core and covered with vitreous enamel, except for contact surface; assures extreme rigidity. Large contact shoe. Shaft is insulated for use on metal panels. Requires ⅜" mounting hole.

MODEL H—25 WATT

No.	Ohms	EACH
A6405	1	$2.65
A6406	2	$2.35
A6407	6	
A6408	10	
A6409	15	
A6410	25	
A6411	50	
A6412	75	
A6413	100	
A6414	250	
A6415	500	
A6416	750	
A6417	1000	$2.65
A6418	2500	2.65
A6419	5000	2.79

MODEL J—50 WATT

No.	Ohms	EACH
A6420	0.5	$2.94
A6421	1	
A6422	2	
A6423	4	
A6424	8	
A6425	12	$2.65
A6426	22	
A6427	50	
A6428	80	
A6429	150	
A6430	300	
A6431	500	$2.79
A6432	1000	
A6433	2500	$2.94
A6434	5000	
A6435	10000	

For 100, 150, 300 and 500 watt sizes order with deposit or ask for prices.

FILTERMATIC TONE CONTROLS

Advanced condenser type Octave Tone Control. Operates smoothly and noiselessly. Mica dielectric construction, in bakelite case; thoroughly moisture-proofed. Measures 1⅝" dia.; 1⅛" deep. 1½" shaft; ⅞" bushing.

WITHOUT SWITCH

No.	Cap.	EACH
A5120	.003	35c
A5121	.006	35c
A5122	.01	41c
A5123	.015	47c
A5124	.02	53c

WITH SWITCH

No.	Cap.	EACH
A5125	.003	47c
A5126	.006	47c
A5127	.01	53c
A5128	.015	59c
A5129	.02	65c

CRL POWER RHEOSTATS

For many commercial applications. Complete air circulation assures maximum dissipation. As bestos insulation.

25 WATT

No.	Ohms	No.	Ohms
A3000	2	A3005	400
A3001	6	A3006	1000
A3002	15	A3007	5000
A3003	50		
A3004	150		

NET EACH **$1.18**

50 WATT

No.	Ohms
A3010	25
A3011	60
A3012	150
A3013	500
A3014	1000
A3015	5000

Net Each **$1.47**

75 WATT

No.	Ohms
A3017	50
A3018	150
A3019	300
A3020	500
A3021	1000

YOUR NET PRICE EACH. **$1.76**

YAXLEY *New Noiseless Type* VOLUME CONTROLS

NEW YAXLEY CATALOG & VOLUME CONTROL GUIDE

Shows exact replacement volume controls for hundreds of sets; gives numbers and specifications. Also contains pertinent data covering condensers, rheostats, etc. Get this valuable guide. It will help you find the proper Yaxley Volume Control replacement for practically any receiver.

FREE

This valuable catalog is free with any order for a Yaxley control, or it can be secured by sending 5c to cover cost of handling.

A11800

YAXLEY UNIVERSAL VOLUME CONTROLS

These new Yaxley Universal Controls make it possible for the serviceman to replace defective controls, regardless of size, shape, or electrical characteristics in over 90% of all the radio receivers in use today. With a comparatively small stock, you can now meet all service requirements which call for volume or tone control replacements.

MANY DESIRABLE FEATURES

New Yaxley Universal Controls feature: ● Easily set minimum bias adjustment on all bias controls. ● 3 inch shaft, easily cut to desired length—just notch with cutters and break off. ● Easily attached separate Underwriters' Approved power switch. ● Knob adapter—not necessary to file shaft. ● Extension bushing—allows use of control through ⅝" panel.

NEW MALLORY-YAXLEY ENCYCLOPEDIA

$75,000 worth of valuable information for only $1.47. The most amazing service manual ever printed. Contains complete service data on over 12,000 sets; circuits, I.F. peaks, circuit components, replacement parts, etc. Eliminates guesswork from servicing. Here in one book, on one page, on one line is the correct answer to every servicing problem. Over 200 pages. Cloth bound, 8½ x11". Wt., 2 lbs.

A3396
NET
$1.47

UNIVERSAL REPLACEMENT CONTROLS

No.	Ohms	Type	Taper
A8565	2	‡Q	IV
A8566	6	‡R	IV
A8567	10	‡S	IV
A8568	20	‡T	IV
A8569	30	‡U	IV
A8570	60	‡V	IV
A8571	100	‡W	IV
A8572	200	‡X	IV
A8538	400	‡A400P	IV
A8573	500	‡A	I
A8539	550	‡A550P	IV
A8540	1M	‡A1MP	IV
A8574	1M	‡B	I
A8603	1M	‡UC500	II
A8541	2M	†*A2MP	IV
A8576	2M	‡*C12	I
A8575	2M	‡*C	II
A8542	3M	‡*A3MP	IV
A8579	3M	‡*D12	I
A8577	3M	‡*D	II
A8578	3M	‡*D7	VII
A8543	5M	‡*A5MP	IV
A8544	5M	Y5MP	IV
A8582	5M	E12	I
A8580	5M	‡*E	II
A8581	5M	‡*E7	VII
A8585	7500	F12	I
A8583	7500	‡*F	II
A8584	7500	‡*F7	VII
A8545	10M	‡*A10MP	IV
A8546	10M	Y10MP	IV
A8588	10M	G12	I
A8586	10M	‡*G	II
A8604	10M	UC501	II
A8587	10M	‡*G7	VII

No.	Ohms	Type	Taper
A8591	15M	H12	I
A8589	15M	‡*H	II
A8590	15M	‡*H7	VII
A8547	20M	‡*A20MP	IV
A8592	20M	Y	I
A8548	25M	Y25MP	IV
A8593	25M	J	II
A8549	50M	Y50MP	IV
A8595	50M	K12	I
A8594	50M	K	II
A8597	75M	Z12	I
A8596	75M	Z	II
A8550	100M	Y100MP	IV
A8598	100M	L	I
A8613	100M	UC510	II
A8605	150M	UC502	I
A8551	200M	Y200MP	IV
A8552	250M	Y250MP	IV
A8599	250M	M	I
A8614	250M	†UC511	I
A8612	250M	UC509	II
A8553	500M	Y500MP	IV
A8600	500M	N	I
A8615	500M	†UC512	I
A8616	500M	††UC515	I
A8617	500M	UC513	II
A8606	750M	UC503	I
A8554	1 Meg.	Y1000MP	IV
A8601	1 Meg.	O	I
A8618	1 Meg.	†UC514	I
A8602	2 Meg.	P	I
A8607	3 Meg.	UC504	I
A8608	4 Meg.	UC505	I
A8609	5 Meg.	UC506	I
A8610	5 Meg.	UC507	II
A8611	9 Meg.	UC508	I

*Adjustable Bias Feature.
†Slotted Shaft for auto sets.
††Extra long shaft for autos, etc.
‡Wire Wound Element. Balance Carbon.

List, $1.00.
NET
EACH **59c**

ATTACHABLE VOLUME CONTROL SWITCHES

Available in five types, these easily attached snap-on power switches fit any of the Yaxley controls on this page. Underwriters' Approved.

A8620. Type 6-9. S.P.S.T. Special thin design. "On-off" switch. List, 50c. NET...**29c**

A8621. Type 7. D.P.S.T. Thin design, similar to Type 6. List, 60c. NET.....**35c**

A8622. Type 8. S.P.D.T. Slightly larger than Types 6 and 7. List, 60c. NET.....**35c**

A11805. Type 13. 3 P.S.T. Shorting. List, 60c. NET.....**35c**

A11806. Type 14. 4 P.S.T. Shorting. List, 60c. NET.....**35c**

YAXLEY VOLUME CONTROL TAPERS

The graphs shown here illustrate the various tapers of Yaxley volume controls. To simplify the reading of these tapers, the following explanations are given:

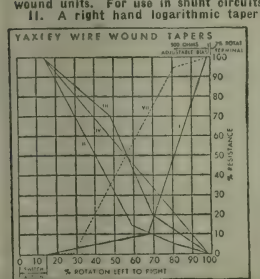
I. A modified logarithmic left-hand taper in the carbon unit; semi-logarithmic taper in the wire wound units. For use in shunt circuits, such as antenna and audio circuits.

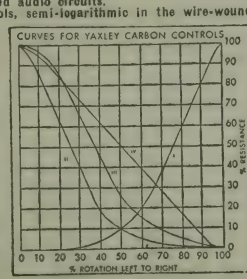
II. A right hand logarithmic taper in the carbon controls, semi-logarithmic in the wire-wound types. For series circuits, such as cathode voltage controls.

III. Combination right and left hand taper. For antenna and "C" bias control.

IV. Linear taper. Used where the voltage changes proportionate to the degree of rotation.

VII. A left hand taper found only in wire-wound controls. Useful in combined antenna and bias control circuits.





SPECIAL REPLACEMENT CONTROLS

These controls are especially made for receivers whose volume control requirements are so special that they cannot be met by the universal type controls. These controls have special electrical or mechanical features, or a combination of both which makes them suitable for special replacement purposes. Consult your Yaxley Volume Control Guide for correct selections.

No.	Ohms	Type	Use
A11810	2M	SRP133	Vol.
A11811	4500	SRP134	Vol. Sen.
A11812	450	SRP138	Vol.
A11813	550	SRP139	Vol.
A11814	1200	SRP141	Vol.
A11815	2400	SRP142	Vol.
A11816	2M	SRP144	Vol.
A11817	2M	SRP145	Vol.
A11818	50M	SRP150	Vol.
A11819	60	SRP152	Phono. Vol.
A11820	13M	SRP153	Vol.
A11821	50M	SRP154	Vol.
A11822	2500	SRP160	Equal.
A11823	75M	SRP170	Vol.
A11824	125M	SRP179	Vol.
A11825	1500	SRP185	Vol.
A11826	32M	SRP188	Vol.
A11827	250M	SRP213	Vol.
A11828	500M	SRP216	Vol.
A11829	1M	SRP223	Vol.
A11830	250M	SRP226	Vol., Tone
A11833	32M	SRP245	Vol.
A11834	20M	SRP249	
A11835	250M	SRP251	Vol.
A11836	500M	SRP252	Vol.
A11837	400	SRP253	Hum
A11838	3500	SRP254	Vol.
A11839	15M	SRP255	Vol.
A11840	10M	SRP256	Vol.
A11841	3M	SRP257	Vol.
A11842	15M	SRP258	Vol.
A11843	50M	SRP259	Phono.
A11844	1M	SRP260	Vol.
A11845	100M	SRP261	Vol.
A11846	1500	SRP262	Vol.
A11847	32M	SRP263	Vol., Tone
A11848	650	SRP264	Vol.
A11849	200	SRP265	Hum
A11850	600	SRP266	Hum
A11851	8M	SRP267	Tone Beam
A11852	15	SRP268	Vol.
A11853	10M	SRP269	Vol.
A11854	15M	SRP270	Vol.
A11855	150	SRP271	Vol.
A11856	300	SRP272	Vol.
A11858	10M	SRP274	Vol.
A11859	500M	SRP275	Vol.
A11860	3M	SRP276	Regen.
A11861	2M	SRP277	Vol.
A11862	500M	SRP278	Vol.
A11863	50M	SRP279	Vol.
A11864	500M	SRP280	Vol.
A11865	350M	SRP281	Vol.
A11866	350M	SRP282	Vol.
A11867	2500	SRP283	Vol.
A11868	20M	SRP900	Vol.
A11869	10M	SRP901	Vol.
A11870	800	SRP960	Vol.
A11871	10M	SRP961	Vol.
A11872	250M	SRP962	Vol.

List, $1.50.
NET
EACH **88c**

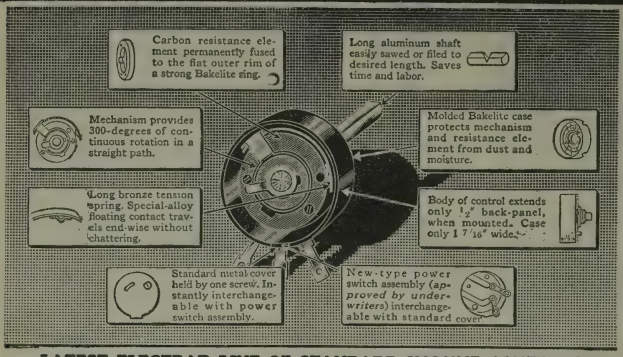
No.	Ohms	Type	Use
A11831	450	SRP239	Vol.
A11832	6000	SRP241	Vol.

NET
EACH **29c**

A11857	500,000	SRP273	Vol.

NET **$1.18**

NEW ELECTRAD STANDARD VOLUME CONTROLS



LATEST ELECTRAD LINE OF STANDARD VOLUME CONTROLS

Smooth, quiet, and long-lived. Unaffected by moisture. Contact shoe is self-wiping type increasing smoothness and quietness with use. Housed in molded bakelite case, 1/2" thick, 1 7/16" dia., with metal end cover and new type 1/4" dia. aluminum shaft. New type convertible power switches (described below) may be easily added. All controls marked "W" are wire-wound.

CAT. NO.	MFG. NO.	TAPER CURVE	TOTAL RES.	CAT. No.	MFG. No.	TAPER CURVE	TOTAL RES.
A4200	204W	D	10	A4240	995W	D	10000
A4201	269W	D	20	A4241	996	F	10000
A4202	270W	D	30	A4217	240	C	10000
A4203	271W	D	50	A4218	573	A	12000
A4204	272W	D	100	A4235	875	H	12500
A4205	273W	D	200	A4219	201	C	15000
A4206	274W	D	400	A4248	899	C	20000
A4236	991W	D	500	A4220	279	D	25000
A4207	282W	D	600	A4221	280	E	25000
A4208	275W	D	800	A4222	241	F	30000
A4209	276W	D	1000	A4242	997	A	40000
A4237	992W	D	1500	A4223	205	D	50000
A4210	232W	D	2000	A4224	202	A	75000
A4211	233W	D	3000	A4225	242	E	100000
A4212	277W	D	4000	A4226	281	D	200000
A4213	234W	D	5000	A4243	998	A	250000
A4214	278	E	5000	A4227	208	E	250000
A4238	993W	D	6000	A4228	203	E	500000
A4239	994W	D	7500	A4229	206	E	1 Meg.
A4215	560	E	7500	A4246	999	E	2 Meg.
A4216	283	D	10000				

List, Each Standard Volume Control, $1.00.
YOUR NET PRICE, EACH **59c**

FADER CONTROLS (With Control Tap)

A4160	890	E	50,000	A4244	894	E	500,000
A4161	891	E	250,000	A4245	895	E	1 Meg.
A4162	892	E	500,000	A4247	898	E	2 Meg.

CONTROLS WITH TONE TAP

List, Each, $1.50.
NET, EACH **88c**

DUAL CONTROLS FOR PUSH-PULL GRIDS FOR AUDIO AMPLIFIER USE

A4165	893T	E	500,000 / 500,000	A4166	896T	E	250,000 / 250,000

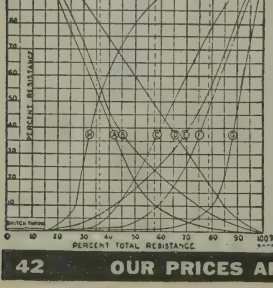
List, Each, $2.50.
NET, EACH **$1.47**

POWER SWITCHES FOR ELECTRAD CONTROLS

A4231. S.P.S.T. Type. Standard "On-Off" Switch with 2 terminals. List, 50c. NET..... **29c**

A4233. S.P.D.T. Type. Phono-Radio Switch. Has 3 terminals. List, 60c. NET..... **35c**

A4234. D.P.S.T. Type. Breaks 2 circuits. Used in battery radios. List, 60c. NET..... **35c**



ELECTRAD TAPER CHART

Shows you how to select proper standard control. A = Cathode bias control. B = Cathode series control. C = Ant. Shunt or Ant. and bias control. D = Voltage divider. E = Ant. and "C" bias, Audio Shunt and tone control. F = Audio Shunt and tone control. G = Audio Shunt. H = Antenna Cathode heavy current control. Refer to this chart when ordering standard volume controls.

NEW ELECTRAD VOLUME CONTROL GUIDE

The 1937 Guide is larger and more complete than any previous edition. Over 100 pages of valuable data with a complete list of manufacturers' and set models.

"ELECTRAD CONTACT"

A real Service man's magazine written by technical men. Issued every 60 days. BOTH FREE. One ELECTRAD carton entitles you to a copy of the Guide, or the "Contact" for one year. Two cartons entitle you to both. Send cartons direct to ELECTRAD.

REPLACEMENT VOLUME CONTROLS

Manufacturer and Model	Cat. No.	YOUR PRICE
Allied Radio (See Knight)		
American Bosch Magneto		
Model 5	A4217	$0.59
46DC, 27 Ambrola, 16 Ambrola, 35 Cruisers, 57, 87, 66, 76	A4200	.59
10 Essex, 96, DC-96, 146, 166, 176, 46AC, 126, 107, 116	A4228	.59
44	A4211	.59
28, 29	A4250*	.88
5A, 200, 201, 205, 206, 210, 211	A4251*	1.18
58, 62AC, 62DC	A4252*	.88
40, 41AC, 251, 350, 355, 360, 370	A4253*	1.18
4 Essex, 7, 7C, 7A, 20, 20J, 20K, 20L, 31, 32, 37, 36	A4254*	1.18
80, 84	A4255*	.88
60, 61, 63	A4256*	.88
100 (Auto Radio)	A4257*	.88
48AC, 49, 54DC	A4258*	1.47
58 (Tone Control)	A4228	.59
250, 312 (Tone Control)	A4225	.59
F. A. D'Andrea (Fada)		
41, 42, 44, 46, 47	A4229	.59
73, 74, 76, 79, 83, 85, 88, 89, KY, RA, RC, RE	A4229†	.59
45, 45KU, 51, 53, 57, KX61	A4216	.59
SF-50/80, 22	A4200	.59
7AC, 45/72, 10, 11, 31, 10Z, 71, 72, 475UA, 475CA, RP62CA, RP62UA, RP65CA, RP65UA, 262CA, 262UA, 265CA, 265UA	A4259*	.88
16, 17, 32, 16Z, 32Z, 18DC	A4260*	.88
20, 20Z, 25, 25Z, 15M, 15MZ, 75, 77	A4262*	.88
475-A	A4263*	.88
48, 49, 51KO, 86KB	A4228	.59
48KW, 49KW, Flashograf	A4215	.59
KO, KC, RG, 55, 58	A4218†	.59
43, 762, KG, KF	A4264*	1.47
RC Chassis Used in 78, 79 Receivers	A4265*	1.47
Atwater Kent		
70, 74, 76, Series D, F, L-1, L-2, P	A4267*	1.47
55, 55C, 55F, 55FC, 56, 57, 60, 60C, 61, 61C, 66 (Strip)	A4278*	.29
55, 55C, 55F, 55FC, 56, 57 (Late Models)	A4269*	1.47
H Series, 70, 72, 74, 75, 76	A4270*	1.47
82, 82F 85, 85F	A4271*	1.18
80, 80F, 83, 83F, 90, 90F	A4272*	1.18
84 (Late)	A4273*	1.18
86 All Types	A4274*	1.18
82DC	A4275*	1.18
82Q	A4276*	.88
37, 38, 40, 40F, 41, 42, 42F, 43, 44, 46, 47, 51, 53, 52 (Strip)	A4277*	.29
424, 534, 816, 936	A4228	.59
Early 84, 84F, 84D, 84Q	A4356*	1.18
Brunswick Balke Collender Co.		
14, 21, 31	A4357*	1.18
PR 17-8, B17	A4282*	.88
R-1, 2KR, 2KRO, 3KR3, 3KRO, 3KR6, 3KR8, 5KR, 5KRO, 5KR6	A4283*	.88
3NC3, 3NW3, 5NO, 5NC3	A4284*	.88
17, 24, 25, 4PA, 4A, D11, D12, D16, D18, D33	A4228	.59
S14, S21, S31, S81, S82	A4285*	1.18
DC-14, DC-21, DC-31	A4213†	.59
Below Serial No. 25000: 11, 12, 16, 33	A4286*	.88
81, 821	A4224	.59
Panatrope (Phono Control)	A4287*	.88
PR-6	A4200	.59
32	A4210†	.59
Columbia Radio (See Knight)		
Crosley Radio Corp.		
XJ, 3RS, 4-29, 6-60, 6-85, RFL90, 401A, 20 Bat., 21 Bat., 22 Bat., 5-38, 6-75	A4200	.59
400, 410, 420	A4209	.59
608, 609 (11 1/16 inch Shaft)	A4292*	.88
809 Jewel Box (Long Shaft)	A4293*	.88
Buddy Chum	A4206	.59
20S, 31S, 33S, 34S, 27, 30, Late Models—40S, 41S, 42S, 45S	A4294*	.88
AC-7, AC-7C	A4207	.59
71A, Early Models—40S, 41S, 42S, 45S	A4295*	.88
92, 121, 121-1, Series B, 127, 91, Auto Roamio, 56, 75	A4228	.59
53, 54, 57, 58, 55D.C., 56D.C.	A4297*	.88
Early 704	A4298*	.88

* Exact Duplicate Control.
† Requires "On-Off" Switch, A4231.

OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDERSOLD

NEW ELECTRAD REPLACEMENT VOLUME CONTROLS

LATEST REPLACEMENT VOLUME CONTROLS

Manufacturer and Model	Cat. No.	YOUR PRICE
Crosley Radio Corp.— (Cont'd)		
24, 125	A4296*	$1.18
Early Models—41A, 42, 61, Female Shaft—608, 610 Gem Box, 602 Band Box, 704 Jewel Box, 705 Show Box, 706 Show Box	A4299*	.88
Early 706 (Long Shaft)	A4300*	.88
46, 52	A4301*	.88
49A.C.	A4302*	.88
41, 41A, 42, 705DC, 706 Show Box (Long Shaft)	A4303*	.88
Short Shaft—602, 704, 704A, 704B	A4304*	.88
Super Buddy 122, Johnny Smoker, 131	A4210	.59
General Motors Radio Corp.		
Six Junior, 6-61, 6B, 5050, 5053, 35	A4200	.59
Day Fan Nos. 8AC, 5003, 5091, 5077, 5080, 72	A4219	.59
Chassis S1A, S1B, 216, 217, 219, 250	A4315*	1.18
Chassis S2A, S2B, Models 251, 252, 253, 254, 255, 256, 257, 258	A4316*	1.18
Chassis S2A, S2B, S3A, S3B, Model 251 (Tone Control)	A4317*	.88
Chassis S4A, S4B	A4318*	1.18
Chassis S4A, S4B, Models 252, 253, 254, 255, 256, 257, 258 (Late Model Tone Controls)	A4319*	.88
Chassis S9A, S9B, Model 211	A4320*	1.18
Chassis MA, MB, Models 180, 190 Tone Controls	A4321*	.88
Chassis S10A, S10B, Model 220	A4322*	1.18
120 Chassis A, 120 Chassis B, 130 Chassis A, 130 Chassis B, 140 Chassis A, 140 Chassis B, 1001 Early	A4323*	1.47
110-cc Mfd., 5053, 5065, 5066, 5057, 5052	A4213	.59
A-5005, A5020	A4223	.59
Grigsby-Grunow Co. (Majestic)		
35 Tone	A4217	.59
70, 70B, 71, 72	A4358*	.88
90, 90B, 91, 92	A4359*	.88
93	A4224	.59
233, 230A	A4326*	1.47
20, 21, 22, 23	A4327*	1.18
15, 15 Chassis, 15B, 150, 151, 153, 154, 155, 156	A4329*	1.18
35 Chassis	A4214†	.59
Majestic 25B	A4398*	1.18
100B, 102, 103	A4328*	1.47
60, 61, 62, 160, 163	A4330*	.88
130, 130A, 131, 132	A4331*	.88
Majestic 25 Chassis Models Brentwood, Cheltenwood and Brunswick	A4333*	1.18
Majestic 90, 90B, 91, 92, 180, 181, 321, 90B, 100, 100B (Equalizer)	A4334*	.88
Majestic 30 Chassis, 31	A4335*	1.76
180	A4336*	1.47
Majestic 50 Chassis, 51, 52	A4337*	1.47
200, 201, 203, 204	A4338*	.88
210	A4339*	.88
200 (Tone Control)	A4340*	1.18
210 Chassis (Tone Control)	A4341*	1.18
15 (Phono Control)	A4342*	.88
180, 181 (Phono Control)	A4222	.59
25B (Tone Control)	A4397*	.88
150 Chassis (Tone Control)	A4223	.59
120, 120B	A4343*	1.47
80	A4219	.59
67, 68, 69, 196, 460, 461, 463, 666, 776, 886, Master Six	A4344*	.88
44, 49, 194 (Chassis Model 440)	A4345*	1.18
55, 59, 75, 85, 86, 195, 560, 566 (Chassis Model 500), 998 (Chassis 800)	A4346*	1.18
491, 493 (Chassis Model 490)	A4347*	.88
66	A4348*	1.18
370, 371, 373, 400, 411A, 413A	A4349*	1.18
Knight (Allied Radio Corp.)		
6/7, 8/9, 9 Tube Super	A4211	.59
8GS	A4350*	1.18
AC5, SG10	A4224	.59
7 Tube Super (108)	A4215	.59
9 Tube Super (114)	A4228	.59
7 Tube Super (108), 9 Tube Super (114) (Tone Control)	A4223	.59
P	A4351*	.88
P (Batt.) P (32 V.)	A4352*	1.18
R	A4353*	1.18
U, V	A4354*	1.18
T, W	A4355*	1.18
Montgomery Ward & Co.		
2822 Balboa, 2827, 2895 DeSoto, 2897	A4206	$0.59
111, 811, 111IX, 811X, WG24, First Type 62-020, First Type 62-29	A4218	.59
3035, 3037, 3063, 3067, 1522, 1562, 20W, 62-520, Model 49, 26P, 26PX	A4217	.59
1355, 1955, Recital	A4229	.59
62, 1040	A4207	.59
181, 187	A4214	.59
27W Chassis (Tone Control)	A4223	.59
Fantasy & Solo (Tone)	A4229	.59
Commander & Cavalier (Tone Control), 62-21, 62-22, Second Type 62-29, 62-30, 1932 Auto.	A4228	.59
Commodore & Sovereign	A4211	.59
Grenadier & Recital (Tone Control)	A4226	.59
Grenadier	A4213	.59
Philco Radio		
40D.C.	A4207	.59
82, 5, 86, 87, 511, 521, 531, 541, 551, 551A, 561, 571, 581	A4363*	.88
15	A4228	.59
71 Series	A4399*	.88
70 Early, 70A Early, 90 (2—45's), 270, 270A, 90A, Lazy Boy 370, 370A, 470, 470A, 570, 570A	A4364*	1.47
Model 95, 92	A4365*	.88
Models 112, 112A, 112E, 212, 212A, 212E, 30 Batt., 96, 96A, 111, 111A, 296, 296A	A4366*	.88
Models 20, 20A, 220, 21, 41DC, 42DC, 77, 77A, 220A	A4367*	1.47
Models 60, 60A	A4368*	1.47
Models 51, 51A, 48DC, 52	A4412*	.88
62	A4211	.59
53	A4369*	1.18
60, 261	A4370*	1.18
57	A4371*	1.18
19 (Code 128)	A4372*	.88
89	A4373*	1.18
1, 2, 3 Auto	A4374*	.88
28, 29, 45	A4375*	1.18
R. C. A. Victor Co.		
Radiola 16, 20	A4376*	.88
Radiola 17, 50, 41D.C., 7-25, 7-54	A4282*	.88
Radiola 18, 33, 51D.C., 7-11, 7-26X, 33D.C.	A4283*	.88
Radiola 44, 46, 47	A4377*	.88
Radiola 60, 62	A4284*	.88
Radiola 64, 67	A4378*	.88
Radiola 64 (Sensitivity Control), 9-18, 9-54, 9-56	A4379*	.88
Radiola 66	A4380*	.88
Radiola 80, 82, 86, 35, 39, Clock Model RAE68, R51	A4310*	.88
Radiola R-5, R5X	A4312*	.88
Radiola Superette, R7A, R4, R6, R7DC, R9, R9DC, R10DC	A4381*	.88
7-29	A4217	.59
Radiola R-11, Superette Model B, R8, R12, R10, RE18, R21, RAE26, RE18A, RE19, RO23	A4313*	.88
S.G. Battery Set	A4223	.59
Radiola 46DC	A4382*	.88
Radiola RAE-59, RAE-79, R50, R55, RE-28, RE20	A4311*	.88
67 (Phono. Control), 80 (Phono. Control)	A4383*	.88
80, Remote Control Models 82, 86	A4384*	.88
57, Remote Control Models R-35, 39	A4385*	1.47
Radiola 42, Radiola 48, R14, R15	A4386*	2.06
Model 33A	A4204	.59
R-32, RE45, RE52, RE75, RE154, RE156	A4387*	1.47
R34, RE-35, RE-39, RE-57, RE-73	A4390*	1.47
RE-59 (Phono. Control)	A4391*	1.18
75	A4392*	.88
RAE84	A4393*	.88
RC-98	A4394*	1.18
RC-104	A4396*	1.18
Sears, Roebuck & Co.		
K, 501, 502	A4241	.59
Mentor, Model H	A4400*	1.76
1650, 1652, 1654, 1822, 1824, 1830, 1831	A4229	.59
1370, 2400	A4218	.59
1721, 1722, 1732	A4401*	1.47
1705	A4402*	1.76
Sears, Roebuck & Co.— (Cont'd)		
1708, 1709, 1720, 1725, 7065	A4403*	$1.47
7091, 7092, 7093, 7094	A4404*	1.18
1708, 1709, 1712, 1713, 1714, 1722, 1732 (Tone Control), 1750	A4405*	.88
1704, 1706, 1707, 7070, 7071, 7072	A4406*	1.18
1708, 7064	A4407*	1.18
1710	A4408*	.88
1705 Tone, 1714	A4409*	.88
1711, 7090	A4410*	.88
1725, 1750 (Tone Control)	A4411*	1.18
Simplex		
P	A4351*	.88
P Batt., P-32 Volt	A4352*	1.18
R	A4353*	1.18
U, V	A4354*	1.18
W, T	A4355*	1.18
T-Auto	A4413*	1.18
Sparton Radio		
49, 5-26, 5-15, 6-26, 6-15	A4200	.59
5, 9	A4415*	1.18
10	A4416*	1.18
15	A4417*	1.18
25, 26	A4418*	1.18
110AC, 301, 101, 109, 930, 931, 79A, 69, 591, 593, 89	A4419*	.88
570, 740, 750, 564, 609, 610, 620, 737, 574, 870, 111A, 89A, 589, 103	A4420*	.88
410, 420, 600A, 620A, 610A, 430, 750D	A4421*	1.76
AC7, 235, 235DC, 62, 63	A4224	.59
24, 40	A4422*	.88
Stewart-Warner Corp.		
Models 950DC, 980, Battery-950, 970, R100C	A4424*	1.47
99, 811, 806	A4224	.59
500, 520, 525	A4414*	1.18
950AC, R100A, R100B, R100E	A4425*	.88
801	A4219	.59
530, 535	A4213	.59
R-104A, B, E	A4426*	.88
R-106A	A4427*	1.18
R-110E, R110, Series 109	A4428*	1.18
R115, R116, R119	A4429*	1.18
Model 102A, B, E	A4444*	.88
Stromberg-Carlson		
1A, 1B, 501, 502, 633, 634	A4200	.59
635, 636 (Short Shaft)	A4431*	.88
635, 636, 638A (Double Shaft)	A4432*	.88
846, 848 (Double Shaft) (Long Shaft)	A4433*	.88
641, 642, 652, 654 (Long Shaft) (Double Shaft)	A4434*	.88
	A4435*	.88
United Air Cleaner (Sentinel)		
106B, 10B, 666C, 666, 104, 444, 29, 30	A4219	.59
Series 20, Sentinel 114, 118 Series	A4228	.59
110, 108-A, 108-B, 99, 109, 111	A4215	.59
108	A4225	.59
440	A4218	.59
106, 11, 12, 15, 16	A4217	.59
U. S. Radio & Television Corp.		
36, 37, 50, 60, 90	A4219	.59
Apex 31, DC Model 33, Model 30 Auto, Apex 49, Gloriette 20, 99 Series	A4217	.59
Gloriatone Early 27	A4209	.59
Gloriatone 28, 29, Apex 41, 43, 46, 47, 42, 44, 48, 48A	A4206	.59
No. 8 Series Super Heterodyne, No. 30 Series Superhet	A4229	.59
7 Series, Pentode	A4228	.59
Gloriatone 26P	A4360*	.88
Gloriatone late 27	A4450*	1.18
28, 31 (Tone Control)	A4228	.59
Zenith Radio Corp.		
Early 91, Early 92	A4457*	1.18
14, 15, 16, 17, 39, 33, 34, 35, 35A, 342, 352, 352A, 362, 41, 42, 422, 35PX, 35APX	A4454*	1.76
50, 212, 522, 532, 542, 602, 613, 622, 642, 672, 52, 53, 54, 61, 62, 64, 67	A4458*	1.18
70, 71, 72, 73, 77, 712, 722, 732, 772	A4456*	1.76
80 Hypermetron, BH Zenette, LH Zenette, 6 Tube Zenette	A4223	.59
WH 7 Zenette	A4218†	.59
5 Tube Zenette	A4217	.59
270-5, 210-5, 211-5	A4218†	.59
Late 91 (Serial above 373, 334), Late 92 (Serial above 301, 394)	A4453*	1.18

* Exact Duplicate Control. † Requires "On-Off" Switch, A4231.

Centralab

CENTRAL RADIO CRL LABORATORIES

— STANDARD — Volume Controls

STANDARD RADIOHM VOLUME CONTROLS

The new small size CRL Standard Control. Listing below covers practically all requirements. Only 1⅝" dia.; less than 9/16" deep without switch. With 2¼"x ¼" shaft which may be cut to fit. Carbon type. See chart below for taper. Supplied with or without No. A3095 snap-on switch described below.

Less Switch No.	CRL No.	Max. Res. Ohms	Curve No.	With Switch No.	CRL No.
A3025	72-118	500	1	A3060	62-118
A3026	72-107	1000	1	A3061	62-107
A3027	72-101	2000	1	A3062	62-101
A3028	72-108	3000	1	A3063	62-108
A3029	72-109	4000	1	A3064	62-109
A3030	72-110	5000	1	A3065	62-110
A3031	70-204	5000	6	A3066	52-204
A3024	72-139	7500	1	A3075	62-139
A3032	72-114	10000	1	A3067	62-114
A3033	72-113	10000	3	A3068	62-113
A3034	70-205	10000	4	A3069	52-205
A3035	72-100	10000	6	A3070	62-100
A3036	72-115	15000	3	A3071	62-115
A3037	79-006	15000	4	A3072	99-006
A3038	72-119	20000	3	A3073	62-119
A3039	72-111	25000	1	A3074	62-111
A3041	70-206	25000	4	A3076	52-206
A3042	72-102	25000	3	A3077	62-102
A3043	72-103	50000	1	A3078	62-103
A3044	72-117	50000	6	A3079	62-117
A3045	72-123	75000	6	A3080	62-123
A3046	70-202	75000	4	A3081	52-202
A3047	72-104	100000	1	A3082	62-104
A3048	72-122	100000	6	A3083	62-122
A3040	72-136	150000	6	A3094	62-136
A3049	72-120	200000	1	A3084	62-120
A3050	72-131	200000	4	A3085	62-131
A3051	72-121	250000	6	A3086	62-121
A3052	72-105	500000	6	A3087	62-105
A3053	72-106	500000	1	A3088	62-106
A3054	70-203	500000	2	A3089	52-203
A3022	72-140	750000	6	A3096	62-140
A3055	72-116	1 Meg.	6	A3090	62-116
A3023	72-137	2 Meg.	6	A3097	62-137
A3056	72-132	3 Meg.	6	A3091	62-132
A3059	72-138	250000	6	A3098	62-138
A3057	72-134	500000	Tapped audio grid	A3092	62-134
A3058	72-135	1 Meg.		A3093	62-135

LESS SWITCH NET EACH CONTROL... **59c** 5 for $2.65

WITH SWITCH NET EACH CONTROL.. **88c** 5 For $3.95

RADIOHM SWITCH COVER

Underwriters' approved. Bakelite insulated switch mounted on snap-on type plate. Remove back cover of CRL control and "snap" switch cover on.

A3095. NET EACH........................ **29c**

SPECIAL SWITCH COVERS

A3210. Single pole, double throw switch; 3 terminals. NET **35c**

A3211. Double pole, single throw switch; 4 terminals. NET **35c**

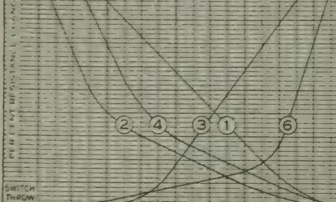
REPLACEMENT VOLUME CONTROLS

A very thorough listing of the latest line of Centralab Replacement Volume Controls. Designed to replace original units effectively. Controls marked (*) are EXACT Duplicates. If the control you require is not listed, write to us stating the name and model of set, with tube lineup, or send in the old control, and we will supply correct replacement.

Manufacturer and Model	Cat. No.	NET
Allied Radio (See Knight)		
Atwater Kent		
469Q, 558Q, 424, 534	A3052	$0.59
37, 38, 40, 42, 52, 41, 43, 44, 45, 53, 47	A3106*	.88
H2 Series, 72, H1 Series	A3107*	1.47
70 & 76 (Q Chassis)	A3108*	1.47
80, 83, 90	A3122*	1.18
165, 217, 246, 275, 310, 667, 448, 555, 708, 82D, 188, 228, 260, 467, 266, 612, 627, 808, 812, 89F, 92	A3087	.88
67, 67C	A3047	.59
511	A3057	.59
567, 567F	A3075	.88
944	A3073	.88
Brunswick		
10 Midget	A3112*	1.18
14, 21, 31 Panatrope	A3076	.88
Crosley Radio		
60, 61, 62S, 74, 56	A3043	.59
41A, 42, 61, 602, 608, 610, 609, 704, 705, and 706	A3113*	.88
AC7, Buddy, Chum	A3025	.59
40S, 41S, 42S, 82S, 71A	A3114*	1.47
21, 22 Batt.	A3046	.59
28, 30, 31, 33, 34, 315	A3115*	.88
124, 124-1	A3051	.59
53, 54, 57, 58, 605, 615	A3039	.59
400, 410, 420	A3026	.59
55, 91, 92 Auto	A3047	.59
77-1, 59	A3037	.59
122 Super Smoker	A3027	.59
154	A3070	.88
124, 125	A3215*	1.18
95, 96, 98, 99 Auto Sets	A3091	.88
133	A3036	.59
141, 147, 155, 163, 166, 176, 148, 159, 167, M5-3	A3065	.88
128	A3111*	1.18
182	A3087	.88
134, 134-1, 175	A3052	.59
146, 157, 158, 164, 170, 171, 168-D	A3056	.59
166, 169, 172, 174, 176	A3068	.88
Edison, Inc., and Splitdorf		
R200	A3046	.59
C1, C2, R1, R2, SRC3, Rear	A3117*	.88
C1, C2, R1, R2, SRC3 Front	A3118*	.88
R4, R5, C4, R6, R7, R12, Abbey Jr.	A3119*	1.47
R122	A3027	.59
Eveready (National Carbon)		
1, 2, 3	A3116*	.88
30, 40 Series	A3026	.59
31 Series	A3046	.59
50 Series	A3159*	1.47
Fada (F.A.D. Andrea)		
7	A3045	.59
30, 30A, 31, 10, 11	A3100*	.88
25, 15M, 15MZ	A3103*	.88
122-KE	A3039	.59
41, 42, 44, 46, 47, 81, 84	A3055	.59
48, 49-KW	A3087	.88
45, 51, 53, 57	A3067	.88
General Electric		
T41	A3125*	1.47
H31, H51, H71	A3029	.59
GET 12	A3038	.59
MDO 2580	A3043	.59
General Motors Radio (Day-Fan)		
5066, 5065, 5057, 6DC, 110-6-MG	A3039	.59
8AC, 5077, 5080	A3042	.59
A5005, A5020, 216, 217, 219	A3043	.59
150, 160, "A," "B"	A3127*	1.47
72	A3031	.59
5003, 5004, 5010, 5091, 5048	A3035	.59
120A, 130, 140, 110, 18, 180	A3216*	1.47
211-S9A, S98, S38, 200, 201, S-1-A-216, 217, 219, 250	A3078	.88
1001, 160	A3130*	1.47
S-11-D, 1095, 250	A3078	.88
220, S-10-A, 10-B	A3071	.88
S-2-B, S-3-A, S-3-B, 251-8	A3067	.88
Grunow (General Household Util.)		
500	A3090	.88
501	A3087	.88
1101	A3055	.59
Chassis, 6A, 6O	A3146*	1.18
750	A3149*	1.18
4-B, 4-BX, 4-C Chassis	A3024	.59
8D, SD Chassis	A3093	.88
Howard Radio		
SG-A, SG-C	A3148*	1.47
SGB, H.O., 35AC, 40	A3034	.59
X2, X3, X8, Z4	A3087	.88
Kennedy, Colin B., Corp.		
Royal 60, 80	A3052	.59
12SG, 10, 20, 22	A3152*	1.47
34, 30, 32, 50, 52, 56	A3032	.59
"Royal"	A3047	.59
26, 526, 826, 36, 38, 40	A3129*	1.47
Knight (Allied Radio Corp.)		
6 7, 8/9, 9 Tube Super	A3028	.59
SG8	A3076	.88
SG9	A3154*	1.76
SG10	A3155*	1.18
AC5	A3046	.59
7 Tube Super (108)	A3069	.88
9 Tube Super (114)	A3087	.88
7 Tube Super (108), 9 Tube Super (114), (Tone Cont.)	A3044	.59
Kolster Radio (Columbia Phono)		
K21, 23, 24	A3044	.59
K20 to 32, B10, B15, B16, 902, 961	A3042	.59
C1, C3, C2, C4, C5, C6, C7, 40-60-7K, 902, 930	A3055	.59
K42, K43, K44, K45	A3157*	1.47
930 Phono Comb.	A3154*	1.76
950	A3035	.59
100 Series	A3087	.88
60 Series, 31-33	A3065	.88
70, 80, 90 Series	A3071	.88
32-34	A3069	.88
Majestic (Grigsby Grunow)		
70, 70B, 71, 72	A3131*	.88
180, 181	A3132*	1.47
80	A3035	.59
50, 51, 52	A3133*	1.47
90, 91, 92, 180, 321 (Equalizer)	A3134*	.88
90 Series	A3135*	.88
30, 31, 230A	A3136*	1.76
130A, 130, 131, 132	A3138*	.88
25, Early 251, 253, 254	A3139*	1.18
15, 15B, 150	A3140*	1.18
120, 121	A3141*	1.47
60 Series, 160	A3142*	.88
210, 211, 214, 215	A3143*	.88

* Exact Duplicate Control.

STANDARD RESISTANCE CURVE CHART



The taper curves illustrated on the left will help you select the proper Centralab Volume Control for use in any type of radio circuit. The numbers shown on each curve correspond to the curve numbers given in the Standard CRL Control listing above. Standard applications of each curve are as follows: (1) Voltage divider with uniform resistance change, (Pot.). (2) "C" bias rheostat (L.H.). (3) Antenna and "C" bias of one tube (R.H.). (4) Antenna and 'C' bias of two tubes (L.H.). (6) Audio grid, antenna shunt, or tone control (R.H.). Curves shown are arranged to indicate minimum volume at the left and maximum volume at the right. The figures at the left of the curves indicate percentage of resistance change; figures at top indicate percentage of clockwise rotation. Refer to this chart when ordering volume controls.

VOLUME CONTROL GUIDE

The new completely revised CRL volume control guide. Packed with valuable information every Serviceman should have. Larger than ever. Contains 168 pages of up-to-the-minute information. Some of the features are: 400 individual types of radio set listings—7000 different models; set model numbers are listed in numerical order; new tone and wave-band switch listing; new Midget Radiohm listing; new economy P.A. controls; control information on late 1936 and early 1937 sets. FREE on request with every order for CRL volume controls.

A3099.
IF ORDERED SEPARATELY...... **10c**

Centralab
CENTRAL RADIO CRL LABORATORIES

REPLACEMENT Volume Controls

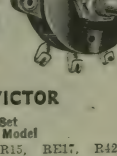
REPLACEMENT VOLUME CONTROLS

Manufacturer and Model	Cat. No.	NET
Majestic (Cont'd)		
25B, 251B, 253B, 254B, 35, 351, 353	A3226*	1.18
110 Auto	A3228*	.88
111 Auto	A3229*	.88
114 Auto	A3230*	.88
116 Auto	A3231*	.88
60 Auto	A3232*	1.18
118 Ford Auto	A3233*	.88
20, 21, 22, 23	A3234*	1.18
200, 201, 203, 204	A3235*	.88
220, 221, 223	A3236*	.88
260, 300, 310, 77	A3237*	.88
340, 360, 380	A3238*	.88
370, 371, 373	A3239*	1.18
380, 381	A3240*	1.18
440	A3241*	1.18
460	A3242*	.88
490	A3243*	.88
500	A3244*	1.18
570	A3245*	.88
600	A3246*	1.18
800	A3247*	.88
Montgomery-Ward (Airline)		
1522-62, 3025-37-65-67, 811, 1711	A3037	.59
WG-24, 62-3, 62-6, 62-7, 62-8, 62-9, 62-104	A3072	.88
62-22, 62-30, 62-21, Auto, 17	A3052	.59
63-48, 62-40, 62-50, 62-91, 62-93	A3055	.59
62-1, 62-2	A3048	.59
13, 15, 16, 16X, 17, 18, 18X	A3033	.59
07A	A3248*	.88
87, 62, 101, 101X	A3087	.88
77, 95	A3249*	1.18
Philco		
65	A3223*	.88
86, 87, 511	A3161*	.88
1, 2, 3, Transitone No. 7 Auto	A3052	.59
20, 21, 41DC, 42DC, 70, 70A, 77, 80 (2-45's), 470	A3162*	1.47
111, 111A, 112, 112A, 30, 96	A3163*	.88
51, 52, 48 D.C., 51A	A3164*	.88
71, 47DC	A3165*	.88
57	A3168*	1.18
95	A3166*	.88
16	A3167*	1.18
70, Lazy X, 370	A3221*	1.76
90, 261	A3222*	1.18
76	A3224*	.88
41, 42	A3052	.59
35, 36 (Batt.)	A3169*	1.47
Ford Car Radio	A3225*	1.18
38, 38A Batt.	A3214*	.88
81	A3196*	.88
89 Late	A3197*	.88
144	A3167	1.18
90 (1-45), 490	A3199*	.88
90 (2-47)	A3200*	.88
610	A3087	.88
R.C.A. Victor		
Radiola, 17, 18, 33, 41, 41DC	A3035	.59
R17, R17, R42, R48	A3125*	1.47
R32, RF45, 52, 145	A3170*	1.47
RE35, RE39, RE57, RE73, R14, RE84, 42	A3171*	1.47
80, 82, 86	A3029	.59
46DC, R48, M30, 142-B, 241-B (Batt.)	A3043	.59
21, 22	A3172*	.88
44, 46	A3028	.59
60, 66	A3025	.59
R17M, R18W, R27	A3085	.88
RE20, R72, R74, R74, R76, R77	A3044	.59
RS, R10, R11, R12, R21, R26, RE18, RE19	A3219*	.88
RC78A, RAE84	A3220*	.88
R37, R38P, 120, 124, 223, 230, 331	A3201*	.88
RC52	A3170	1.47
RC70	A3024	.59
RC4, R6, RE16A	A3030	.59
R22, 112-230A-C-DC, 114	A3065	.88
RE40-P, RE8-P, 110, 111, 115, 210, 310	A3063	.88
RE80	A3034	.59
100, 101	A3064	.88
300	A3078	.88
M143, M242, M243, M226	A3202*	.88
118, 211	A3203*	1.18
Sears-Roebuck		
1390, 1490, 1402, 1404, 1406, 1580, 1582, 1584, 1590, 1592, 1704, 7070-1-2-3-4, 1706, 7075-6-7-8, 7091-2-3-4	A3072	.88
1708-9, 1750	A3087	.88
	A3052	.59

Manufacturer and Model	Cat. No.	NET
Simplex		
H-AC, J	A3063	.88
K, R above serial 320001	A3069	.88
P	A3087	.88
P Batt.	A3032	.59
U, V1 (AC-DC)	A3082	.88
Sparton		
61, 62, 71, 71B, 72, 78	A3086	.88
39	A3054	.59
89A, 111A, 564, 570, 574, 600, 610, 620, 737, 740, 870	A3217*	.88
69, 79A, 101, 109, 110AC, 501, 589, 591, 593, 950, 951	A3218*	.88
31, 55	A3056	.59
225, 225 DC	A3041	.59
410, 420, 430 (Dual)	A3174*	1.76
5 and 9	A3069	.88
Stewart-Warner Corp.		
900 Series	A3176*	.88
R100 Series, 950, 925	A3177*	.88
811	A3046	.59
970AC, 980	A3129*	1.47
305, 315, 320	A3025	.59
363	A3031	.59
R-104-A, B, E, 106, 108, 108X, 111AC and DC, 109 Series, R111, R115, R116, R118	A3087	.88
110, A and E, 112 Auto	A3088	.88
R120	A3052	.59
101, 102-A-B-E	A3032	.59
105 Series	A3044	.59
Temple		
Batt. Set	A3052	.59
8-80, 8-80, 8-90	A3031	.59
8-61, 8-81, 5-55, 8-91	A3185*	1.47
AC30	A3034	.59
150, 110, 119	A3065	.88
170	A3061	.88
Transformer Corp. (Clarion)		
51, 53, 55, 60, Jr.	A3074	.88
70, 83	A3037	.59
40, 100, G102	A3112*	1.18
90 Series, 94, 25-94	A3060	.88
G 120	A3034	.59
G1340, 160, 25-160	A3061	.88
241, 240, 25-240, 360, 280, 25-280, AC-280, 25-280, 480	A3052	.59
84, 85	A3034	.59
AC420, 450	A3087	.88
320	A3033	.59
422, 423, 425, 440	A3073	.88
U. S. Radio & Television (Apex)		
Battery Models	A3054	.59
Universal 21 Series	A3069	.88
Panatrope 70, Radiotrope, Case 8-80, Heritage	A3035	.59
36, 37	A3031	.59
Midget 27 Series	A3072	.88
28 Series, 41, 42, 43, 44, 46, 47, 48	A3025	.59
49, Midget 32	A3036	.59
26B, 26P, 20	A3033	.59
8, 1 Series	A3055	.59
1010	A3087	.88
Wells-Gardner (Gulbransen)		
WG24, 291, CG, 9-In-line, Club Late	A3147*	1.47
82, Arcadia	A3148*	1.47
8 tube SG, 50, 70	A3037	.59
40A, 23 Series, 062 Auto	A3052	.59
WG5, 5 tube AC, 05A, 05AA, 05BA	A3071	.88
06Z, 06W, Y6Z	A3087	.88
17A, Tone Control	A3248*	.88
06A, 5E Series	A3249*	1.18
02A, 07A	A3090	.88
082 (1933)	A3052	.59
05A, 5B	A3068	.88
10, 13 Series	A3032	.59
Zenith Radio Corp.		
1929 All Models, 60, 61, 62, 64, 67, 602, 613, 642, 672	A3062	.88
563	A3078	.88
70 Series, 50, 60, 70, 71, 72, 73, 77, 712, 722, 732, 772	A3191*	1.76
"Zenette" AH, CH, RH, 3A, LP	A3069	.88
102, 112, 212, 11, 12, 52, 53, 54, 57, 522, 532, 542	A3192*	1.18
2009	A3070	.88
70X, 80	A3043	.59
230, 240, 245, 474	A3087	.88
2021, 2022, 2024, 2047, 2013, 250	A3069	.88
2314	A3086	.88
2917	A3193*	1.76
11-12	A3192	1.18

* Special Control Duplicating Original.

POPULAR CRL EXACT DUPLICATE REPLACEMENTS



EXACT DUPLICATE Replacement Volume Controls for a number of the most popular standard radio receiver models. Each control listed is designed to fit and perform exactly like the original used in the set. Splendid replacements which will give accurate and dependable service. (RCA-Victor Control is illustrated.)

RCA-VICTOR

Cat. No.	Mfg. No.	Set Model	NET
A3125	62940	RC2, R15, RE17, R42, R48	$1.47
A3170	10450	R32 RE45, RE52, RE75, RE145	1.47
A3171	62895	RE84, 35, 39, 42, 57, 73 RC2A, R14	1.47
A3172	6049	21, 22	.88
A3219	3092	R8, R10, R11, R12, R21, R26, RE18, RE19	.88

PHILCO

A3163	4093	96, 296, 30, 111, 211, 112, 212, 96A, 296A, 111A, 112A, 212A	.88
A3162	5039	70, 90 (2-45's), 470, 70A	1.47
A3161	3076	86, 87, 511	.88
A3166	3790	95	.88
A3164	5839	51, 51A, 52, 48DC	.88
A3165	6499	71, 47DC	.88
A3162	4094	20, 21, 41DC, 77, 77A, 42DC	1.47
A3225	33-5067	Ford Car Radio	1.18
A3167	33-5022	16	1.18
A3168	33-5011	57	1.18
A3222	33-5006	60, 261	1.18
A3224	3879	76	.88
A3169	5317	35, 36 (Batt.)	1.47
A3196	33-5002	81	.88
A3197	33-5007	89 Late	.88
A3199	5724	90 (1-47), 490	.88
A3200	6015	90 (2-47)	.88

MAJESTIC

A3131	105	70, 70B, 71, 72	.88
A3136	3638	30, 31, 131-2-3, 230A	1.76
A3140	8294	15 Series, 150	1.18
A3139	5816	25 Series	1.18
A3142	4098	60 Series, 160	.88
A3135	559	90, 90B, 91, 92, 93	.88
A3138	869	120, 120A, 121, 122	.88
A3140	4682	55, 56, 57, 58	1.18
A3141	4762	120, 121	1.47
A3231	9825	116 Auto	.88

ZENITH

A3191	63-226	70 Series, 50, 60, 70, 71, 72, 73, 77, 712, 722, 732, 772	1.76
A3192	63-227	102, 112, 212, 11, 12, 52, 53, 54, 57, 522, 532, 542	1.18

DUAL VOLUME CONTROL

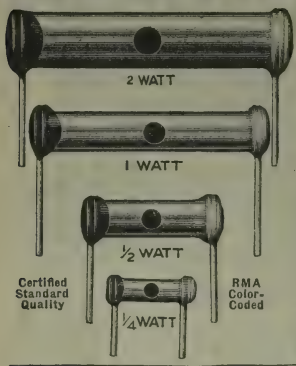
General purpose twin controls with many applications. Numerous sets now giving trouble with single controls may be improved with No. 74-601 (if the original control is in the "C" bias circuit, or with No. 74-602 for the screen grid circuit. In both cases, back case is wired in like original control and shaft case is shunted from antenna to ground.

A3148. 74-601. BACK CASE, 25,000 OHMS FOR "C" BIAS; SHAFT CASE, 10,000 OHMS FOR ANTENNA.

A3129. 74-602. BACK CASE, 50,000 OHMS TAPERED AS S. G. POT.; SHAFT CASE, 10,000 OHMS FOR ANTENNA.

List, Each, $2.50. NET EACH..... **$1.47**

KNIGHT *Carbon Resistors*



Certified Standard Quality

RMA Color-Coded

HIGHEST STANDARD OF QUALITY

ASSURED ACCURACY

- SOLID MOLDED; PERMANENTLY BONDED.
- TOLERANCE AVERAGE CLOSE TO 5%.
- ABSOLUTELY QUIET IN OPERATION.
- COMPLETELY MOISTURE-PROOF.
- NON-INDUCTIVE—NO CAPACITY EFFECT.
- MAINTAIN RESISTANCE VALUES OVER WIDE TEMPERATURE RANGE.
- OXYGEN-WELDED TINNED LEADS.

The finest carbon resistors you can buy at any price. Use these highest quality units with confidence, in any R.F. or Audio circuit. No other resistor is so universally used. Knight Carbon Resistors are of solid molded construction, permanently bonded, with solid cross-section. Impervious to moisture, quiet in operation, non-inductive; have low temperature coefficient; are mechanically strong. They will carry 100% overload without being permanently affected. Each resistor is RMA Color Coded. The tolerance of each and every Knight Carbon Resistor is held within 10% (average close to 5%) by unerring automatic testing machines. Save and profit by using Knight highest standard Carbon Resistors — the resistor units with the outstanding features.

Resist. Ohms	1/4 WATT No.	1/2 WATT No.	1 WATT No.	2 WATT No.
100	A4850	A4914	A4978	A5042
150	A4851	A4915	A4979	A5043
200	A4852	A4916	A4980	A5044
250	A4853	A4917	A4981	A5045
300	A4854	A4918	A4982	A5046
350	A4855	A4919	A4983	A5047
400	A4856	A4920	A4984	A5048
450	A4857	A4921	A4985	A5049
500	A4858	A4922	A4986	A5050
600	A4859	A4923	A4987	A5051
700	A4860	A4924	A4988	A5052
800	A4861	A4925	A4989	A5053
900	A4862	A4926	A4990	A5054
1000	A4863	A4927	A4991	A5055
1250	A4864	A4928	A4992	A5056
1500	A4865	A4929	A4993	A5057
1750	A4866	A4930	A4994	A5058
2000	A4867	A4931	A4995	A5059
2250	A4868	A4932	A4996	A5060
2500	A4869	A4933	A4997	A5061
3000	A4870	A4934	A4998	A5062
3500	A4871	A4935	A4999	A5063
4000	A4872	A4936	A5000	A5064
4500	A4873	A4937	A5001	A5065
5000	A4874	A4938	A5002	A5066
6000	A4875	A4939	A5003	A5067
7000	A4876	A4940	A5004	A5068
8000	A4877	A4941	A5005	A5069
9000	A4878	A4942	A5006	A5070
10000	A4879	A4943	A5007	A5071
12500	A4880	A4944	A5008	A5072
15000	A4881	A4945	A5009	A5073

Resist. Ohms	1/4 WATT No.	1/2 WATT No.	1 WATT No.	2 WATT No.
17500	A4882	A4946	A5010	A5074
20000	A4883	A4947	A5011	A5075
22500	A4884	A4948	A5012	A5076
25000	A4885	A4949	A5013	A5077
30000	A4886	A4950	A5014	A5078
40000	A4887	A4951	A5015	A5079
50000	A4888	A4952	A5016	A5080
60000	A4889	A4953	A5017	A5081
75000	A4890	A4954	A5018	A5082
100000	A4891	A4955	A5019	A5083
150000	A4892	A4956	A5020	A5084
200000	A4893	A4957	A5021	A5085
250000	A4894	A4958	A5022	A5086
300000	A4895	A4959	A5023	A5087
400000	A4896	A4960	A5024	A5088
500000	A4897	A4961	A5025	A5089
600000	A4898	A4962	A5026	A5090
750000	A4899	A4963	A5027	A5091
900000	A4900	A4964	A5028	A5092
1 meg.	A4901	A4965	A5029	A5093
1.5 meg.	A4902	A4966	A5030	A5094
2 meg.	A4903	A4967	A5031	A5095
2.5 meg.	A4904	A4968	A5032	A5096
3 meg.	A4905	A4969	A5033	A5097
3.5 meg.	A4906	A4970	A5034	A5098
4 meg.	A4907	A4971	A5035	A5099
5 meg.	A4908	A4972	A5036	A5100
6 meg.	A4909	A4973	A5037	A5101
7 meg.	A4910	A4974	A5038	A5102
8 meg.	A4911	A4975	A5039	A5103
9 meg.	A4912	A4976	A5040	A5104
10 meg.	A4913	A4977	A5041	A5105

1/4 WATT	1/2 WATT	1 WATT	2 WATT
Net Each..... **4c**	Net Each..... **5c**	Net Each..... **6c**	Net Each..... **10c**
Per Doz.....43c	Per Doz.....50c	Per Doz.....60c	Per Doz.....$1.00
Per 100.....$3.55	Per 100.....$4.00	Per 100.....$4.85	Per 50.....$4.05

HANDY KNIGHT RESISTOR KITS

These resistor kits are a handy asset in the shop or on service calls. Each kit is a carefully selected assortment of the most popular values of Knight quality Carbon Resistors, all RMA color-coded, and neatly mounted on a convenient sturdy strip. Each strip has a hole in one end for hanging on a nail or hook.

12 Popular Values In Each Strip

12 certified high quality Knight resistors of the types most frequently used in service work are included in the Knight handy Resistor Kit assortments listed below. You can replace individual resistors as you use them by ordering single units from our regular Knight stock listed at left. This assures you of a complete range of values at all times. Free RMA color-code chart is included with each kit.

½ WATT KITS

A5160. Consists of one each of the following ½ watt resistors: 200; 400; 500; 700; 1,000; 2,000; 3,000; 4,000; 6,000; 10,000; 12,500; and 15,000 ohms.

A5161. Consists of one each of the following ½ watt resistors: 20,000; 25,000; 30,000; 40,000; 50,000; 60,000; 75,000; 100,000; 250,000; 500,000 ohms; 1 and 2 meg.
YOUR PRICE, EITHER KIT..... **50c**

1 WATT KITS

A5162. Consists of one each of the following 1 watt resistors: 200; 400; 500; 700; 1,000; 2,000; 3,000; 4,000; 6,000; 10,000; 12,500; and 15,000 ohms.

A5163. Consists of one each of the following 1 watt resistors: 20,000; 25,000; 30,000; 40,000; 50,000; 60,000; 75,000; 100,000; 250,000; 500,000 ohms; 1 and 2 meg.
YOUR PRICE, EITHER KIT..... **60c**

HANDY RMA COLOR CODE GUIDE

A handy pocket-size celluloid guide with rotary discs which show body, end and dot colors of resistors according to standard RMA color code. Gives resistance value quickly and easily; eliminates figuring.

A5109. YOUR PRICE..... **9c**

FREE with order for resistor kit or 24 assorted resistors.

RMA Color Coded

All Popular Values

A handy celluloid ALLIED RMA Color-Code Guide is included FREE with every Knight Carbon Resistor Kit.

KNIGHT CARBON RESISTOR KITS—BUY THEM!

EACH KIT CONTAINS 24 POPULAR VALUES—SAVES YOU MONEY

- HIGHEST QUALITY CARBON RESISTORS
- MOST POPULAR VALUES IN EACH KIT
- SAVES YOU TIME AND MONEY
- CONVENIENT—FOR TOOL KIT OR BENCH

These handy kits each containing 24 Knight Carbon Resistors of the most popularly used values will save you time and money. Values not listed may be quickly obtained by combining 2 or more units. One of these kits in your tool box will enable you to replace any defective carbon resistor, regardless of value. All resistors are of the highest quality, and are color-coded to conform with RMA standards.

The high certified quality of these Knight carbon resistors assures long, dependable performance. Each kit is packed in a handy, durable container, of a convenient size to fit in your tool kit, or for handy use on your service bench. You can replace resistor values as you use them by ordering individual Knight units listed above. This assures you of a complete and adequate assortment.

EACH KIT CONSISTS OF THE FOLLOWING VALUES:

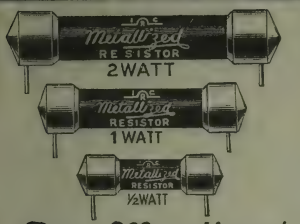
OHMS	OHMS	OHMS	OHMS	OHMS	OHMS
200	1,000	6,000	20,000	50,000	250,000
400	2,000	10,000	25,000	60,000	500,000
500	3,000	12,500	30,000	75,000	1 meg.
700	4,000	15,000	40,000	100,000	2 meg.

1 WATT KIT
Consists of one each of the above resistors in 1 watt size.
A5106. YOUR NET PRICE..... **$1.25**

½ WATT KIT
Consists of one each of the above resistors in ½ watt size.
A5108. YOUR NET PRICE..... **$1.05**

¼ WATT KIT
Consists of one each of above resistors in ¼ watt size.
A5107. YOUR NET PRICE..... **88c**

IRC RESISTORS



IRC *Metallized*

TYPE "F" RESISTORS

Quiet, metallized type resistors for use in critical circuits. Absolutely dependable famous IRC quality. Standard with leading manufacturers and radio servicemen. Order resistors wanted from list below, specifying resistance and giving stock number shown under each type.

STANDARD RANGES

OHMS	OHMS	OHMS	OHMS
50	2000	12500	200000
100	2250	15000	250000
200	2500	17500	300000
250	3000	20000	400000
300	3500	25000	500000
350	4000	30000	750000
400	5000	40000	1 Meg.
500	6000	50000	1.5 Meg.
600	7000	60000	2 Meg.
750	7500	65000	3 Meg.
800	8000	70000	5 Meg.
1000	9000	75000	6 Meg.
1250	10000	100000	7 Meg.
1500	11000	150000	10 Meg.

½ WATT.

A5700. F-½. 1½" long. Pigtail type. 50 OHMS to 5 MEG. List, Each, 17c. NET EACH **10c**

SPECIFY VALUE WHEN ORDERING

1 WATT.

A5701. F-1. 1 13/16" long. Pigtail type. 100 OHMS TO 10 MEG. List, Each, 20c. NET EACH **12c**

SPECIFY VALUE WHEN ORDERING

2 WATTS.

A5702. F-2. 1 13/16" long. Pigtail type. 50 OHMS TO 5 MEG. List, Each, 30c. NET EACH **18c**

SPECIFY VALUE WHEN ORDERING

IRC

METALLIZED RESISTOR KITS

Handy kits containing an assortment of the most popular values of the BT type insulated metallized resistors. Packed in neat, compact container, of durable construction.

STANDARD 1 WATT KIT

A5715. Ten of the most used values of the popular type BT-1 fully insulated IRC resistors, in a handy container which can easily be carried in your pocket. Resistor values not included may be easily obtained by using two or more of the units in this kit. NET **$1.18**

STANDARD ½ WATT KIT

A5716. An especially handy assortment of ten type BT-½ resistors, consisting of the most popular values. Ideal for midget receiver servicing. NET **$1.00**

DELUXE 1 WATT KIT

A5717. A larger assortment of the most popular values of the type BT-1 resistors. Consists of 20 resistors of practical, most often used values, packed in a permanent container, with a definite space marking for each unit. Ideal for the service kit. NET **$2.35**

NEW IRC INSULATED TYPE "BT" METALLIZED RESISTORS

An improved new resistor design makes these units outstanding and desirable in every way. The metallized resistor element is sealed in completely by a special high voltage insulating material which absolutely eliminates danger of grounding. New small size gives unusual convenience. Wire leads of handy effective length are provided. The heavy casing of insulating material makes these new units crack-proof and trouble-free. Accurate, durable and safe. The quiet performance of these new type resistors renders them ideal for use in AVC circuits, high gain amplifiers, etc. The resistance element is sealed in against moisture. Leads are effectively bonded to the resistance element. Each unit is color-coded and marked with resistance value.

STANDARD STOCK RANGES

OHMS	OHMS	OHMS	OHMS	OHMS	OHMS	OHMS	OHMS
50	450	2000	7000	15000	50000	200000	1.5 Meg.
100	500	2250	7500	17500	60000	250000	2 Meg.
150	600	2500	8000	20000	65000	300000	3 Meg.
200	750	3000	9000	22500	70000	400000	4 Meg.
250	800	3500	10000	25000	75000	500000	5 Meg.
300	1000	4000	11000	30000	100000	600000	6 Meg.
350	1250	5000	12000	35000	125000	750000	7 Meg.
400	1500	6000	12500	40000	150000	1 Meg.	10 Meg.

Type BT-½—½ Watt

A5705. Available in all ranges above from 50 OHMS to 10 MEGOHMS. Only ⅝ inch long, 3/16 inch diameter, with 1½ inch leads. Ideal for use in midget receivers. Specify values desired when ordering. List, Each, 17c. NET EACH **10c**

Type BT-1—1 Watt

A5706. A fine resistor for all radio applications. Small; accurate; sealed against moisture. Only 1¼" long, ¼" diameter. Available in all values above, from 50 OHMS to 10 MEG. Specify values. List, Each, 20c. NET EACH **12c**

Type BT-2—2 Watt

A5707. 1¾" long, 5/16" diameter; 1½" tinned leads. Available in all above resistance values from 750 OHMS to 10 MEG. Specify values. List, 30c. NET EACH **18c**

IRC RESISTANCE INDICATOR

A calibrated adjustable resistor, protected by fuse against overload. Indicates the proper resistance value to use in any circuit. Fuse is readily accessible. Two scales are provided which give accurate readings from 100 to 100,000 ohms. Ball-bearing slider is permanently attached and stays set when adjusted. This valuable instrument will determine proper replacement values of defective resistors; measure unknown values by the substitution method; may also be used as a calibrated potentiometer or voltage divider, or as a temporary standard resistor. Complete with leads, alligator clips and instructions. **A5712.** List, $4.50. YOUR NET PRICE **$2.64**

FREE—NEW IRC RESISTO-CHEST

With Purchase of 56 Resistors

By ordering 56 of the new Type BT-1 1 watt resistors, any values listed above, you get this handy chest. Just the thing for your service bench. Chest measures 8½" high, 4¾" wide, 5½" deep; has 7 small drawers, 1 large drawer. Will hold several hundred resistors.

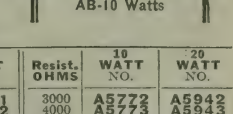
A5714. RESISTO-CHEST and 56 BT-1 1 watt resistors. NET **$6.59**

RESISTO-CHEST ONLY

The above handy drawer-chest by itself, no resistors included. A real value at this price. **A5713.** YOUR PRICE **90c**

IRC POWER WIRE-WOUND RESISTORS

High quality wire-wound units of sturdy construction. Wound of the finest resistance wire, evenly spaced on non-hygroscopic ceramic core. Coated with a new durable cement which assures long efficient service even under conditions of extreme heat and humidity. Actual tests prove these units superior for mechanical strength, load capacity, lower surface temperature, etc. Ideal for Service and Amateur work. IRC Power Resistors conform to N.E.M.A. standards and are accurate to within 5%. With wire leads.



DG-20 Watts

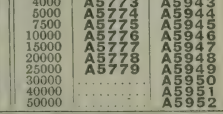
AB—10 WATTS

Popular size resistors available in all ranges up to 25,000 ohms. 1¾ in. long; 5/16 in. diameter. List, Each, 40c. NET EACH **24c**

DG—20 WATTS

Available in ranges indicated below. 2 in. long; 5/16 in. diameter. 1-15,000 Ohm Units. NET EACH **38c**

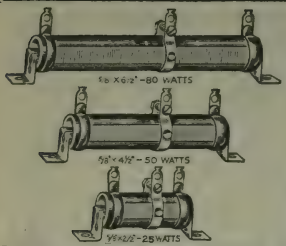
20,000-50,000 Ohm Units. EACH **44c**



AB-10 Watts

Resist. OHMS	10 WATT NO.	20 WATT NO.	Resist. OHMS	10 WATT NO.	20 WATT NO.	Resist. OHMS	10 WATT NO.	20 WATT NO.
1	A5750	A5925	100	A5761	A5931	3000	A5772	A5942
2	A5751	.....	200	A5762	A5932	4000	A5773	A5943
3	A5752	.....	300	A5763	A5933	5000	A5774	A5944
5	A5753	A5926	400	A5764	A5934	7500	A5775	A5945
7.5	A5754	.....	500	A5765	A5935	10000	A5776	A5946
10	A5755	A5927	750	A5766	A5936	15000	A5777	A5947
15	A5756	.....	1000	A5767	A5937	20000	A5778	A5948
20	A5757	.....	1250	A5768	A5938	25000	A5779	A5949
25	A5758	A5928	1500	A5769	A5939	30000	.....	A5950
50	A5759	A5929	2000	A5770	A5940	40000	.....	A5951
75	A5760	A5930	2500	A5771	A5941	50000	.....	A5952

ELECTRAD ADJUSTABLE RESISTORS



VARIOHM RESISTORS

Wire wound on sturdy porcelain tube, covered with vitreous enamel. Exposes a narrow track which makes contact with slider. Monel metal lugs assure permanent connection. Wattage rating conforms to N. E. M. A. standards. Mounting brackets are adjustable. One adjustable lug is furnished; additional lugs may be added.

VITREOUS ENAMELED WITH ADJUSTABLE LUGS

All Variohm units are ⅝ inches in diameter. The adjustable lug is carefully designed to assure long life without undue wear on the wire. These units are ideal replacements for tapped voltage dividers. May be used in receiving sets, amateur transmitters, etc. Accurate to within 5% of the specified value. Listing below covers popular values. You can depend on these well-made resistor units.

25 WATTS

⅝" x 2½" TUBE

Cat. No.	Resist. Ohms	Current M.A.
A4705	1	5460
A4706	3	3160
A4712	5	2450
A4713	10	1730
A4714	15	1410
A4715	25	1090
A4716	50	770
A4717	75	630
A4718	100	545
A4719	150	445
A4720	200	385
A4721	250	345
A4722	500	245
A4723	750	200
A4724	800	193
A4725	1000	173
A4726	1500	141
A4727	2000	122
A4828	2500	109
A4729	3000	100
A4730	3500	92
A4731	4000	86
A4732	5000	77

List Price, 85c YOUR PRICE, EACH..... **50c**

A4733	6000	70
A4734	7500	63
A4736	10000	54
A4737	12000	50
A4738	15000	44

List Price, 95c YOUR PRICE, EACH..... **56c**

A4739	20000	38
A4740	25000	34

List Price, $1.10 YOUR PRICE, EACH..... **65c**

Variohms are also available in 100 and 200 watt sizes. Write for prices.

50 WATTS

⅝" x 4½" TUBE

Cat. No.	Resist. Ohms	Current M.A.
A4741	5	3300
A4742	10	2340
A4743	25	1480
A4744	50	1000
A4745	75	850
A4746	100	740
A4747	150	600
A4748	200	520
A4749	250	465
A4750	500	330
A4751	750	270
A4752	800	260
A4753	1000	224
A4754	1500	190
A4755	2000	165
A4756	2500	148
A4757	3000	135
A4758	4000	117
A4759	5000	104

List Price, $1.35 YOUR PRICE, EACH..... **79c**

A4761	7500	85
A4762	8000	82
A4764	10000	74
A4765	12000	67
A4766	15000	60
A4767	20000	50
A4768	25000	45

List Price, $1.50 YOUR PRICE, EACH..... **88c**

A4769	30000	43
A4770	40000	37
A4771	50000	34

List Price, $1.70 YOUR PRICE, EACH..... **$1.00**

A4772	60000	16
A4710	80000	14
A4711	100000	12

List Price, $2.00 YOUR PRICE, EACH..... **$1.18**

80 WATTS

⅝" x 6½" TUBE

Cat. No.	Resist. Ohms	Current M.A.
A4773	10	2730
A4774	15	2230
A4775	25	1730
A4776	50	1220
A4777	100	865
A4778	250	545
A4779	300	500
A4780	500	387
A4781	750	316
A4782	1000	270
A4783	1500	223
A4784	2000	190
A4785	2500	173
A4786	3500	146
A4787	5000	122

List Price, $1.75 YOUR PRICE, EACH..... **$1.03**

A4789	7500	100
A4790	10000	86
A4791	15000	70
A4792	20000	61
A4793	25000	55

List Price, $2.00 YOUR PRICE, EACH..... **$1.18**

A4794	30000	50
A4795	35000	47
A4796	40000	43
A4797	45000	41
A4798	50000	39

List Price, $2.25 YOUR PRICE, EACH..... **$1.32**

A4799	60000	35
A4800	80000	31
A4801	100000	27

List Price, $2.50 YOUR PRICE, EACH..... **$1.47**

Extra Adjustable Lug
A4803. List, 10c. NET EACH..... **6c**

10 WATT TRUVOLT RESISTORS

Wire-wound replacement resistors with 1000 Volt insulation. Easily adjusted to required resistance by means of convenient sliding clip. Features space-wound construction, heat-conducting copper core, and asbestos insulation for cooler operation. Has protective fibre insulating sleeve. Accuracy is within 5% of specified value. ⅝" dia., 1⅝" long; with sliding clip.

Cat. No.	Type	Resist. Ohms	Curr. M.A.	Max. Volts
A4459	A-.005	.5	4500	2.2
A4460	A-.01	1	3150	3
A4461	A-.02	2	2200	4.5
A4462	A-.025	2.5	2000	5
A4463	A-.03	3	1800	5.5
A4464	A-.05	5	1400	7
A4465	A-.075	7.5	1150	8.5
A4466	A-.1	10	1000	10
A4467	A-.15	15	815	12
A4468	A-.2	20	700	14
A4469	A-.25	25	630	16
A4470	A-.3	30	570	17
A4471	A-.5	50	450	22
A4472	A-.75	75	360	27
A4473	A-1	100	315	31
A4474	A-2	200	220	45
A4475	A-3	300	180	55
A4476	A-4	400	158	63
A4477	A-5	500	141	70
A4478	A-8	800	112	89
A4479	A-10	1000	100	100
A4480	A-12.5	1250	89	111
A4481	A-15	1500	81	122
A4482	A-20	2000	70	141
A4483	A-25	2500	63	158
A4484	A-30	3000	56	173
A4485	A-40	4000	50	200
A4486	A-50	5000	45	222
A4487	A-75	7500	36	274
A4488	A-100	10000	31	316
A4489	A-150	15000	26	388
A4490	A-200	20000	20	395
A4491	A-250	25000	16	400

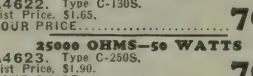
List Price, 50c. YOUR PRICE, EACH..... **29c**

ADJUSTABLE CLIP

Permits easy additional adjustment of Electrad 10 Watt Truvolts to intermediate value by sliding to proper position. Easy to mount.

A4620. List, 10c. NET..... **5c**

We can supply the complete line of Truvolt Adjustable Resistors in 25, 50, and 75 watt sizes. Available in all standard values. Please order with remittance or write for quotations.



ELECTRAD ADJUSTABLE VOLTAGE DIVIDERS

Air-cooled voltage dividers with 4 sliding taps which, when adjusted, give correct voltages desired for any application. Can be used to replace burned-out or defective voltage dividers in many radio sets or amplifiers. Wt., 1 lb.

13000 OHMS—50 WATTS
A4622. Type C-130S. List Price, $1.65. YOUR PRICE..... **76c**

25000 OHMS—50 WATTS
A4623. Type C-250S. List Price, $1.90. YOUR PRICE..... **76c**

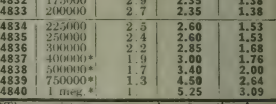
25000 OHMS—75 WATTS
A4624. Type D-250S. List Price, $2.30. YOUR PRICE..... **$1.24**

41000 OHMS—75 WATTS
Designed for use in the power supply of a '10 or '50 type tube receiver or transmitter. Ideal for use in high power amplifiers and receivers. Equipped with 6 sliding taps to give all desired voltages.
A4625. Type D-410S. List Price, $4.50. NET..... **$1.32**

WE CAN SUPPLY ALL ELECTRAD PRODUCTS. WRITE FOR PRICES.

ELECTRAD PRECISION RESISTORS

Accurate, dependable resistors, non-inductively wound in layers on isolantite. Extremely low distributed capacity. Thoroughly impregnated against moisture, ideal for use as multipliers, laboratory resistors, etc. Accuracy plus or minus 1%. With tinned leads. Ferrule terminals listed below may be added.



Cat. No.	Resist. Ohms	Curr. M.A.	List	NET EACH
A4805	1	1225	$0.85	
A4806	5	548	.85	
A4807	10	387	.85	
A4808	25	245	.85	
A4809	50	173	.85	**50c**
A4810	100	122	.85	
A4811	150	100	.85	
A4812	200	86	.85	
A4813	500	55	.85	
A4814	1000	38	.90	$0.53
A4815	2500	24	.90	.53
A4804	4500	18	1.00	.58
A4816	5000	17	1.00	.58
A4817	7500	14	1.00	.58
A4818	10000	12	1.00	.58
A4819	12500	11	1.10	.64
A4820	15000	10	1.10	.64
A4821	20000	8.6	1.35	
A4822	25000	7.7	1.35	
A4823	30000	7.	1.35	**79c**
A4824	35000	6.5	1.35	
A4825	40000	6.1	1.35	
A4826	50000	5.5	1.35	
A4827	60000	5.	1.60	$0.94
A4828	75000	4.4	1.60	.94
A4829	100000	3.8	1.85	1.09

Cat. No.	Resist. Ohms	Curr. M.A.	List	NET EACH
A4830	125000	3.4	$2.10	$1.23
A4831	150000	3.1	2.35	1.38
A4832	175000	2.9	2.35	1.38
A4833	200000	2.7	2.35	1.38
A4834	225000	2.5	2.60	1.53
A4835	250000	2.4	2.60	1.53
A4836	300000	2.2	2.85	1.68
A4837	400000*	1.9	3.00	1.76
A4838	500000*	1.7	3.40	2.00
A4839	750000*	1.3	4.50	2.64
A4840	1 meg.*	1	5.25	3.09

*These resistors are wound on 8 section forms to provide the higher dielectric strength necessary for 1½ watt or 1000 volt rating in these values. Overall length for these types is 1¼ inches.

FERRULE TERMINALS

Designed for use with the Precision Resistors described above. Easily screwed into the resistor ends to convert them to ferrule types.
A4842. Per Pair..... **15c**

Electrad Precision Resistors are available in other values not listed, on special order with remittance, at the price of the next higher unit.

FOR COMPLETE INDEX SEE PAGES 135-136

OHMITE *wire wound* RESISTORS

BROWN DEVIL RESISTORS

A high quality line of wire-wound resistors for all radio and many industrial requirements. Accurately rated; wound on high grade porcelain core. These resistors have a vitreous enamel coating for complete protection. Especially recommended for applications where abnormal moisture is present. Size, 1¾"x⅜"; with heavy tinned wire leads, 1½" long.

10 WATT

No.	Ohms	No.	Ohms
A8000	1	A8032	1000
A8001	2	A8033	1100
A8002	3	A8034	1200
A8003	4	A8035	1250
A8004	5	A8036	1500
A8005	7.5	A8037	1750
A8006	10	A8038	2000
A8007	12	A8039	2250
A8008	15	A8040	2500
A8009	20	A8041	3000
A8010	25	A8042	3500
A8011	30	A8043	4000
A8012	35	A8044	4500
A8013	40	A8045	5000
A8014	50	A8046	6000
A8015	75	A8047	7000
A8016	100	A8048	7500
A8017	125	A8049	8000
A8018	150	A8050	8500
A8019	200	A8051	10000
A8020	225	A8052	11000
A8021	250	A8053	12000
A8022	300	A8054	12500
A8023	350	A8055	13500
A8024	400	A8056	14300
A8025	450	A8057	15000
A8026	500	A8058	16000
A8027	600	A8059	17500
A8028	700	A8060	18000
A8029	750	A8061	20000
A8030	800	A8062	22500
A8031	900	A8063	25000

List, Each, 40c.
YOUR PRICE, EACH **24c**

20 WATT

No.	Ohms	No.	Ohms
A8065	5	A8086	1500
A8066	10	A8087	1750
A8067	25	A8088	1850
A8068	50	A8089	2000
A8069	75	A8090	2250
A8070	100	A8091	2400
A8071	150	A8092	2500
A8072	200	A8093	2750
A8073	250	A8094	3000
A8074	300	A8095	3500
A8075	350	A8096	4000
A8076	400	A8097	4500
A8077	500	A8098	5000
A8078	650	A8099	6000
A8079	700	A8100	7000
A8080	750	A8101	7500
A8081	800	A8102	8000
A8082	850	A8103	10000
A8083	1000	A8104	12500
A8084	1200	A8105	15000
A8085	1250		

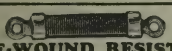
List, Each, 65c.
YOUR PRICE, EACH **38c**

A8106	20000	A8110	40000
A8107	25000	A8111	45000
A8108	30000	A8112	50000
A8109	35000		

List, Each, 75c.
YOUR PRICE, EACH **44c**

A8113	55000	A8118	80000
A8114	60000	A8119	85000
A8115	65000	A8120	90000
A8116	70000	A8121	95000
A8117	75000	A8122	100000

List, Each, $1.00.
YOUR PRICE, EACH **59c**



WIRE-WOUND RESISTORS

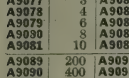
Wire-wound on flat fibre strips. Low inductance.

No.	Ohms	No.	Ohms
A9075	1	A9082	15
A9076	2	A9083	20
A9077	3	A9084	25
A9078	4	A9085	30
A9079	6	A9086	40
A9080	8	A9087	50
A9081	10	A9088	100

NET EACH **7c**
10 FOR **63c**

A9089	200	A9093	700
A9090	400	A9094	900
A9091	500	A9095	1000
A9092	600		

NET EACH **8c**
10 FOR **73c**



CENTER-TAPPED RESISTORS

May be used in any filament or hum balancing circuit. Wire-wound on flexible fibre strip. Lugs are well-fastened, and tinned.

No.	Ohms	No.	Ohms
A9096	6	A9101	60
A9097	10	A9102	100
A9098	15	A9103	200
A9099	20	A9104	400
A9100	40		

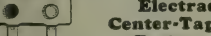
NET EACH **8c**
10 FOR **73c**

Electrad Center-Tapped Resistors

Conveniently small, compact, and fully protected with a coating of enamel. Center tap accurate to within 1%.

No.	Ohms	No.	Ohms
A4610	10	A4614	50
A4611	15	A4615	75
A4612	20	A4616	100
A4613	30	A4617	200

EACH **15c**



EAGLE PLUNGER LEAKS

Adjustable grid leaks with a range from 0 to 50 megohms. Standard mounting. Screw adjustment.

A3974. YOUR PRICE **28c**

OHMITE 1 WATT "WIRE-WATT" RESISTORS

An excellent wire-wound resistor for use in all types of radio circuits. Noiseless; non-inductive. High dielectric core, covered with insulating material. RMA color-coded. 1½" tinned leads are brazed on to terminal lugs. Accuracy of rating is within 5%. Compact in size. Convenient to use.

No.	Ohms	No.	Ohms
A8125	100	A8146	2250
A8126	125	A8147	2500
A8127	150	A8148	3000
A8128	200	A8149	3500
A8129	250	A8150	4000
A8130	300	A8151	4500
A8131	350	A8152	5000
A8132	400	A8153	6000
A8133	500	A8154	7000
A8134	600	A8155	7500
A8135	700	A8156	8000
A8136	750	A8157	9000
A8137	800	A8158	10000
A8138	900	A8159	12500
A8139	1000	A8160	15000
A8140	1100	A8161	16000
A8141	1200	A8162	17500
A8142	1250	A8163	18000
A8143	1500	A8164	20000
A8144	1750	A8165	22500
A8145	2000	A8166	25000

List, Each, 25c.
YOUR PRICE, EACH **15c**

CENTER-TAPPED "WIRE-WATTS"

1 watt center-tapped resistors. Wire-wound. Accurately adjusted.

No.	Ohms	No.	Ohms
A8170	10	A8175	40
A8171	15	A8176	50
A8172	20	A8177	75
A8173	25	A8178	100
A8174	30	A8179	200

List, Each, 35c.
YOUR PRICE, EACH **21c**

10 WATT "RED DEVIL" RESISTORS

For all radio requirements. Wire-wound on low-loss porcelain core; coated with refractory cement which protects wire even at red heat. Will not deteriorate or change value with age. Efficiency is 100% at rated wattage; will stand temporary overloads of up to 50 watts. Size, 1¾"x⅜". With firmly anchored 1½" tinned leads.

No.	Ohms	No.	Ohms
A8180	1	A8212	1000
A8181	2	A8213	1100
A8182	3	A8214	1200
A8183	4	A8215	1250
A8184	5	A8216	1500
A8185	7.5	A8217	1750
A8186	10	A8218	2000
A8187	12	A8219	2250
A8188	15	A8220	2500
A8189	20	A8221	3000
A8190	25	A8222	3500
A8191	30	A8223	4000
A8192	35	A8224	4500
A8193	40	A8225	5000
A8194	50	A8226	6000
A8195	75	A8227	7000
A8196	100	A8228	7500
A8197	125	A8229	8000
A8198	150	A8230	8500
A8199	200	A8231	10000
A8200	225	A8232	11000
A8201	250	A8233	12000
A8202	300	A8234	12500
A8203	350	A8235	13500
A8204	400	A8236	14300
A8205	450	A8237	15000
A8206	500	A8238	16000
A8207	600	A8239	17500
A8208	700	A8240	18000
A8209	750	A8241	20000
A8210	800	A8242	22500
A8211	900	A8243	25000

List, Each, 40c.
YOUR PRICE, EACH **24c**

20 WATT "RED DEVIL" RESISTORS

A heavy-duty "Red Devil" for use in all voltage dividing and voltage dropping circuits. Especially suitable for use in replacing burned-out sections of voltage dividers. Will stand up under severe overloads. Size, 2"x½"; 1½" tinned leads.

A8265	30000	A8268	45000
A8266	35000	A8269	50000
A8267	40000		

List, Each, 75c.
YOUR PRICE, EACH **44c**

A8270	55000	A8276	85000
A8271	60000	A8277	90000
A8272	65000	A8278	95000
A8273	70000	A8279	100000
A8274	75000		
A8275	80000		

List, Each, $1.00.
NET, EACH **59c**

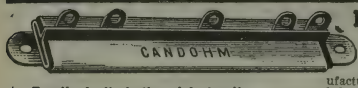
CENTER-TAPPED 10 WATT "RED DEVIL"

High quality accurately center-tapped resistors for all requirements. For use in filament or electrical circuits which are not provided with an electrical center tap. Have 1½" tinned wire leads.

No.	Ohms	No.	Ohms
A8250	10	A8255	40
A8251	15	A8256	50
A8252	20	A8257	75
A8253	25	A8258	100
A8254	30	A8259	200

List, 50c.
YOUR PRICE, EACH **29c**

Candohm RESISTORS



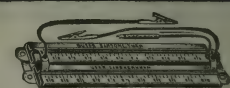
- Exactly duplicate the original unit.
- Resistance remains unchanged indefinitely.
- The choice of leading set manufacturers.
- Over 10,000,000 in use today.

EXACT DUPLICATES

These resistors are EXACT DUPLICATES of the original units listed below. Of extra high quality; used as original equipment by leading set manufacturers. To order replacements not listed below, mention number stamped on shell of original unit; if no number is shown, send in original resistor, giving name and model of set, and we will supply proper unit.

Cat. No.	Fact. No.	Total Ohms	NET
	Clarion (Trans. Corp.)		
A6551	1819	15100	$0.59
A6552	4268	15500	.68
A6553	4269	19200	.68
A6592	4267	19665	.68
A6593	4305	19600	.59
A6594	4512	19085	.59
	Columbia (Knight)		
A6526	AC-5	8200	.54
A6527	AU-5	100	.34
	Crosley		
A6529	20452B	4295	.68
A6530	20909	10000	.49
A6531	21955	6500	.49
A6532	21956	3160	.29
A6534	22574A	5205	.59
A6536	28471	33500	.39
A6537	28755A	274	.78
A6535	20176B	900	.49
	Emerson		
A6538	HR-38	1500	.20
A6539	HR-36	310	.78
	Majestic		
A6543	10145	21702	.68
A6544	10252	10000	.29
A6547	12047	21513	1.12
A6545	10535	2300	.41
A6546	10636	41750	.82
	International		
A6549	R-303	310	.78

Cat. No.	Fact. No.	Total Ohms	NET
	International (cont'd.)		
A6550	R-304	135	$ .20
A6548	R-302	1500	.20
A6542	R-329	4600	.29
	Simplex		
A6518	7705	20490	.49
A6519	7726	33000	.41
A6520	7725	1100.41	.41
	U. S. Radio & Tel.		
A6555	1752	22600	1.56
A6556	1959	23800	1.56
A6557	2303	3640	.39
A6558	2303A	3640	.49
A6559	2715	5055	.49
A6561	2811A	4450	.68
A6562	3111	6825	.78
A6563	3360	24300	.88
A6565	3621	3315	.78
A6566	3622	4300	.49
A6567	4145	20900	.58
A6569	5463	7050	.59
A6570	2381	16000	.71
A6571	27416	32272	.71
	Wells-Gardner		
A6597	98002	39050	.71
A6598	98020	41000	.59
A6590	90974C	15738	1.10
A6591	98037	10000	.59
	Zenith		
A6595	63-351	17035	.59



CANDOHMETER RESISTANCE INDICATOR

An accurately calibrated dual-range resistance indicator. Consists of two Candohm resistor units in a single mounting, insulated from and enclosed in neat metal casing. Sliding test prod moves freely in exposed slot. Quickly and accurately determines value necessary for replacing any burned-out or defective resistor.

0-10,000; 0-100,000 OHMS

Two scales, reading 0-10,000 and 0-100,000 ohms, are accurately stamped into the metal housing of the Candohmeter—the upper scale for determining approximate values, and the lower to permit of more accurate reading within its range. Excellent for experimental or service work. Complete with test leads, insulated handle prod, and alligator clips.
Shpg. wt., 1 lb.

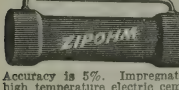
A6599. List, $2.00.
YOUR PRICE **$1.18**

0-100; 0-1,000 OHMS

The same design and quality construction as the Candohmeter listed above, but intended for determining lower values of resistance with greater accuracy. Scales read: 0-100 and 0-1000 ohms. Shpg. wt., 1 lb.

A6596. List, $1.75.
YOUR PRICE **$1.03**

MUTER "ZIPOHM" RESISTORS

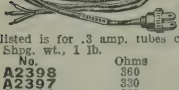


Wire-wound type, 5 watt rating. Flat and compact; most units only 1½x⅛"; those prefixed with * are 2" long. Accuracy is 5%. Impregnated with protective high temperature electric cement. Tinned leads 1½" long.

No.	Ohms	No.	Ohms	No.	Ohms
A6700	100	A6714	1000	A6728	6000
A6701	125	A6715	1100	A6729	7000
A6702	150	A6716	1200	A6730	7500
A6703	200	A6717	1250	A6731	8000
A6704	250	A6718	1500	A6732	9000
A6705	300	A6719	1750	A6733	10000
A6706	350	A6720	2000	A6734	*12500
A6707	400	A6721	2250	A6735	*15000
A6708	500	A6722	2500	A6736	*16000
A6709	600	A6723	3000	A6737	*17500
A6710	700	A6724	3500	A6738	*18000
A6711	750	A6725	4000	A6739	*20000
A6712	800	A6726	4500	A6740	*25000
A6713	900	A6727	5000	A6741	*25000

List Price, 25c.
YOUR PRICE
EACH **15c**

LINE CORD RESISTORS FOR AC-DC SETS



Line cord with built-in resistor to supply proper filament voltage. The filament drop listed is for .3 amp. tubes connected in series.
Shpg. wt., 1 lb.

No.	Ohms	Filament Drop
A2398	360	10.0 to 17.0 V.
A2397	330	18.0 to 24.0 V.
A2400	290	25.2 to 31.5 V.
A2399	250	32.0 to 44.5 V.
A2395	220	45.0 to 52.0 V.
A2396	180	53.0 to 61.0 V.
A2401	160	56.5 to 68.9 V.
A2402	135	68.9 to 75.2 V.

YOUR PRICE
EACH **30c**

220-110 VOLT AC-DC LINE CORD

A special cord with built-in resistor which permits the operation of any .3 ampere 110 Volt A.C.-D.C. receiver from a 220 Volt line. With plug and receptacle.

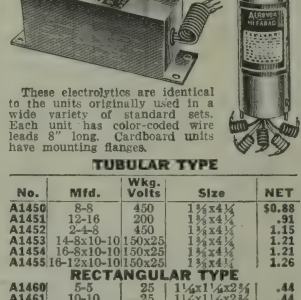
A9145. List, $1.50, NET..... **73c**

"ZIPOHM" RESISTOR KIT

Contains 57 Zipohm resistors in 27 different values. These units were carefully selected from frequency charts and will cover 80% of replacements for wire-wound resistors. Contains the following **5 watt units, 1 each:** 150 ohm, 250, 400, 600, 1250, 4000, 6000, 7500, 15000, 20000 and 25000 ohm. **2 each,** 100 ohm, 200, 300, 3500 and 10000 ohm. **3**—1500 ohm. **4 each,** 500 ohm, 750, 2000, 2500, 5000 ohm and 5—1000 ohm. Also contains **2 each of the following 10 watt units:** 10000 ohm, 15000, 20000 and 25000 ohm.

A6745.
YOUR SPECIAL PRICE..... **$6.91**

AEROVOX UNIVERSAL REPLACEMENT CONDENSERS



These electrolytics are identical to the units originally used in a wide variety of standard sets. Each unit has color-coded wire leads 8" long. Cardboard units have mounting flanges.

TUBULAR TYPE

No.	Mfd.	Wkg. Volts	Size	NET
A1450	8-8	450	1⅜x4¼	$0.88
A1451	12-16	200	1⅜x4¼	.91
A1452	2-4-8	450	1⅜x4¼	1.15
A1453	14-8x10-10	150x25	1⅜x4¼	1.21
A1454	16-8x10-10	150x25	1⅜x4¼	1.21
A1455	16-12x10-10	150x25	1⅜x4¼	1.26

RECTANGULAR TYPE

No.	Mfd.	Wkg. Volts	Size	NET
A1460	5-5	25	1¼x1¼x2¾	.44
A1461	10-10	25	1¼x1¼x2¾	.44
A1462	4-16-8*	150	1½x1⅜x4½	1.06
A1463	8-8-16	200	1½x1⅜x4½	1.23
A1464	16-8	200	1½x1¹⁄₁₆x2¼	.85
A1465	4-4-4	450	1½x1⅜x4½	1.06
A1466	12-12x5-5*	150x25	1 x1½x2¾	1.15
A1467	16-16-8x5-5*	150x25	1¾x1½x3	1.44

* Two negatives. All other cardboard units have common negative.

EXACT DUPLICATE REPLACEMENT CONDENSERS

These condensers are the same in electrical and physical characteristics as the originals which they replace. Have same size, appearance, mounting holes, color-coded leads and capacity ratings. All our condensers are carefully chosen from such well-known lines as: Aerovox, Cornell-Dubilier, Sprague, Solar, Tobe, Concourse, etc. **We can also supply exact duplicate condensers not listed here. Send us your old unit with deposit indicating the name and model number of the receiver and we will duplicate it at an attractive low price.**

St'k No.	Part No.	Model	Cap. Mfd.	NET
		BELMONT (Freshman)		
A585	C-525-C	.....	5-25	$0.59
		CROSLEY		
A590	W23801	124, 125	6-8	.85
A591	W25857B	95, 163	8-8	.50
A596	W27488A	148, 167	8-6	.42
A597	W27677A	147	8-8	.44
A600	W29150B	169, TW2, 5M3	6-7-8	.94
A601	W29264A	166, 172	16-16-8	1.08
		DETROLA		
A612	1460	.....	4-8-20	1.06
		EMERSON		
A617	GGC-137	32	8-16-5-5	1.21
		GRUNOW		
A621	27151	501, 550, 5B	4-8-20-4	1.29
		GENERAL ELECTRIC—RCA-VICTOR		
A627	66143	K52, R28	4-4	.57
A629	66155	K60, R37	4-4-10-4	1.08
A633	66189-1	K64, 121	8-4-4	.94
A634	66189-2	K66, 220	8-4-4-4	1.10
		INTERNATIONAL		
A635	A407	.....	4-4	.50
A636	A408	Standard	5-5	.44
A638	A421	40, 41, 42	3.5-3.5 3.5	.70
A642	A427	.....	3.5-3.5-3.5	.66
		MAJESTIC		
A643	4713	211 Series	8	.56
A649	7278	291 Series	7-10	.68
A652	7824	311 Series	8-16	.97
A656	8385	15, 150 Series	8-8	.86
A658	8755	381	4-8	.70
A662	9661	411, 413	8-10-16	1.03
A663	9979	66X	8-8	.72
A665	10536	40, 49, 440	10-4-6	1.00
A666	10827	55, 59, 590	10-8-8	.98
		MONTGOMERY-WARD		
A686	80944A	62-96, 62-98	4-12-16	1.09
		MOTOROLA		
A668	1388	100	8-8-25	1.18
A670	1668	75 Late	6-4-6	.82
		STEWART-WARNER		
A679	81959	R115, R116	4-13-7	.97
A680	83111	R112	8-8-5-5	1.15
		WELLS-GARDNER		
A686	80944-E	05-A, 05B-A	4-12-16	1.09

MALLORY CONDENSERS

DRY ELECTROLYTIC CONDENSERS

CARDBOARD CASED

Ideal replacement condensers; small and compact. Internal metal seal protects units against damage from excess heat or humidity. With mounting flanges.

All units have 8" color-coded leads.

C-S SINGLE SECTION

525 V. Peak, 450 V. D.C. Working

No.	Mfd.	Type	Size	NET
A2772	2	CS 130	½x ¾x2⅛"	$0.38
A2773	4	CS 131	⅝x ⅞x2⅛"	.44
A2774	6	CS 132	⅝x1 x2⅛"	.53
A2775	8	CS 133	⅝x1 x2⅛"	.56
A2776	10	CS 134	1⅛x1⅛x2⅛"	.68
A2777	12	CS 135	1⅛x1⅛x2⅛"	.76
A2746	16	CS 136	1 x1¼x2⅛"	.85

300 V. Peak, 250 V. D.C. Working

A2778	4	CS 121	½x ¾x2⅛"	.38
A2779	8	CS 123	⅝x ⅞x2⅛"	.47
A2780	10	CS 124	⅝x1 x2⅛"	.56
A2781	12	CS 125	⅝x1 x2⅛"	.59
A2782	16	CS 126	1⅛x1⅛x2⅛"	.65

CN—MULTIPLE SECTION COMMON NEGATIVE

525 V. Peak, 450 V. D.C. Working

A2783	4-4	CN 150	¾x1⅛x2⅝"	.71
A2784	4-8	CN 151	⅞x1¼x2⅝"	.79
A2785	8-8	CN 152	⅞x1¼x2⅝"	.88
A2786	8-8-8	CN 155	1⅛x1¼x3"	1.29

300 V. Peak, 250 V. D.C. Working

A2787	4-4	CN 140	⅝x1 x2⅝"	.53
A2788	4-8	CN 141	⅝x1 x2⅝"	.68
A2789	8-8	CN 142	¾x1⅛x2⅝"	.76
A2790	8-8-8	CN 145	⅞x1¼x2⅝"	1.15

CM—MULTIPLE SECTION SEPARATE NEGATIVES

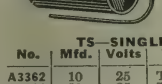
525 V. Peak, 450 V. D.C. Working

A2791	4-4	CM 170	¾x1⅛x2⅝"	.71
A2792	4-8	CM 171	⅞x1¼x2⅝"	.79
A2793	8-8	CM 172	1⅛x1 x2⅝"	.88
A2747	4-4-4	CM 173	1⅛x1¼x3"	1.06
A2794	8-8-8	CM 175	1⅛x1¼x3"	1.29

300 V. Peak, 250 V. D.C. Working

A2795	4-4	CM 160	¾x1⅛x2⅝"	.53
A2796	4-8	CM 161	¾x1⅛x2⅝"	.68
A2797	8-8	CM 162	⅞x1¼x2⅝"	.76
A2799	16-16	CM 164	1⅜x1 x2⅝"	1.06
A2798	8-8-8	CM 165	1⅜x1 x3"	1.15

TUBULAR TYPE DRY ELECTROLYTICS



Especially designed for by-pass use. With 3" tinned leads.

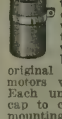
TS—SINGLE SECTION

No.	Mfd.	Volts	Type	Size	NET
A3362	10	25	TS 101	1¾x ¾"	29c
A3364	20	25	TS 102	2¼x ⅞"	35c
A3404	25	25	TS 103	2¼x ⅞"	38c
A3405	50	25	TS 104	2¾x1 "	56c
A3363	5	50	TS 105	1¾x ¾"	29c
A3365	10	50	TS 106	2¼x ⅞"	38c
A3406	25	50	TS 107	2¾x1"	47c
A3407	50	50	TS 108	3½x1⅛"	71c

TN—DUAL COMMON NEGATIVE

No.	Mfd.	Volts	Type	Size	NET
A3364	5-5	25	TN 110	1¾x¾"	NET Each
A3367	10-10	25	TN 111	2¼x⅞"	
A3368	5-5	35	TN 112	1¾x⅞"	
A3369	5-5	50	TN 113	2¼x⅞"	44c

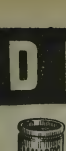
MOTOR-STARTING CONDENSERS TYPE MS



These special condensers are designed to give added starting torque to inductive type A.C. motors. For use with refrigerators, etc. For momentary use only; must be disconnected when motor comes up to speed. May be used as replacements for defective original units or may be applied to speed up motors which are slow-starting under load. Each unit is supplied with protective metal cap to cover terminals and clamping ring for mounting. Working voltage, 110 volts A.C.

No.	Mfd.	Type	Diam.	NET
A3266	60	MS 540	2"	$2.18
A3267	70	MS 541	2"	2.32
A3268	80	MS 542	2"	2.47
A3269	100	MS 543	2"	2.76
A3270	115	MS 544	2"	3.06
A3271	135	MS 545	2½"	3.53
A3272	150	MS 546	2½"	3.88

IN METAL CANS



High in efficiency. New internal construction insures against surge voltage failure; sealed against humidity and temperature damage. Have 8" color-coded leads; mounting nut and washer. Metal can is insulated. Remarkably small but highly efficient. Ideal units for all requirements.

RS—SINGLE SECTION

525 V. Peak, 450 V. D.C. Working

No.	Mfd.	Type	Size	NET
A2752	4	RS 211	2¾x1"	$0.50
A2753	8	RS 213	2¾x1"	.62
A2754	12	RS 215	2¾x1"	.82
A2751	16	RS 216	3½x1"	.91

300 V. Peak, 250 V. D.C. Working

A2755	4	RS 201	2¾x1"	.44
A2756	8	RS 203	2¾x1"	.56
A2757	12	RS 205	2¾x1"	.65

RN—MULTIPLE SECTION COMMON NEGATIVE

525 V. Peak, 450 V. D.C. Working

A2758	4-8	RN 241	3 x1"	$0.85
A2759	8-8	RN 242	3 x1⅝"	.94
A2760	8-8-8	RN 245	3½x1⅝"	1.35

300 V. Peak, 250 V. D.C. Working

A2761	4-8	RN 231	3x1"	.76
A2762	8-8	RN 232	3x1"	.85
A2763	8-8-8	RN 235	3x1⅝"	1.23

RM—MULTIPLE SECTION SEPARATE NEGATIVES

525 V. Peak, 450 V. D.C. Working

A2764	4-8	RM 261	3x1⅜"	$0.85
A2765	8-8	RM 262	3x1⅝"	.94
A2766	8-8-8	RM 265	4x1⅝"	1.35

300 V. Peak, 250 V. D.C. Working

A2761	4-8	RM 251	3 x1⅜"	.76
A2768	8-8	RM 252	3 x1⅝"	.85
A2769	8-8-8	RM 255	3½x1⅝"	1.23
A2770	8-8-16	RM 257	3½x1⅝"	1.38
A2771	8-16-16	RM 259	3½x1⅝"	1.53

REPLACEMENT MULTIPLE SECTIONS TYPE MN

Dry electrolytics in large round metal cans. Designed primarily for replacement of similar sized units. Exceptional filtering efficiency permits four types listed below to replace all multiple units.

525 V. Peak, 450 V. D.C. Working

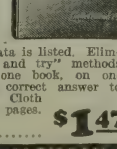
No.	Mfd.	Type	Size	NET
A3370	8-8	MN 272	2½x4½"	$1.06
A3371	5-15	MN 273	2½x4½"	1.35
A3372	8-8-8	MN 275	3 x4½"	1.59
A3373	8-8-8-8	MN 277	3 x4½"	2.12
A3408	9-9-18-18	MN 278	3 x4½"	3.09

WET ELECTROLYTICS TYPE WE

A new improved type of wet electrolytic condenser. Self-regulating type. Low leakage current and ability to withstand overload make this the ideal unit for all heavy-duty filter requirements. Can is negative; lug is positive terminal. All units rated at 475 D.C. working voltage except type WE3540 which is 490 V. D.C.

No.	Mfd.	Type	Size	NET
A2508	4	WE 447	1 x3⅛"	$0.47
A2509	8	WE 847	1 x4½"	.56
A2510	12	WE 1247	1⅜x4½"	.68
A2511	16	WE 1647	1⅜x4½"	.79
A2512	18	WE 1847	1⅜x4½"	.88
A2513	35	WE 3540	1½x4½"	1.03

Mallory-Yaxley Radio Service Encyclopedia



$75,000 worth of valuable information for only $1.47! HERE AT LAST! The most amazing Service Manual ever printed. Contains complete Service Data on over 12,000 sets: Circuits, I.F. Peaks, Circuit components, Replacement parts, etc. Every bit of essential data is listed. Eliminates guesswork and "cut and try" methods from Servicing. Here in one book, on one page, on one line, is the correct answer to every Service Problem. Cloth bound, 8½x11". Over 200 pages. Wt., 2 lbs.

A3396. YOUR PRICE..... **$1.47**

TUBULAR BY-PASS UNITS

PAPER DIELECTRIC—TYPE TP

Non-inductive paper by-pass condensers of superior quality. Conservatively rated. Thoroughly impregnated against moisture. Metal end discs prevent leads from pulling out.

No.	Mfd.	SIZE	
		600 V. D.C. WORKING	
A2207	.0001	1⅛x½"	NET EACH
A2208	.00025	1⅛x½"	
A2209	.0005	1⅛x½"	
A2210	.001	1⅛x½"	
A2211	.002	1⅛x½"	
A2212	.005	1⅛x½"	9c
A2213	.006	1⅛x½"	
A2214	.01	1⅛x½"	
A2215	.02	1⅛x½"	
A2216	.05	1⅞x⅝"	12c
A2217	.06	1⅝x⅝"	
A2218	.1	2⅛x1¾"	15c
A2219	.25	2⅝x⅞"	21c
A2220	.5	2¾x1 ⅛"	29c
		400 V. D.C. WORKING	
A2221	.01	1⅛x½"	9c
A2222	.02	1⅛x½"	
A2223	.05	1⅛x⅝"	
A2224	.1	1⅛x⅝"	12c
A2225	.25	2⅛x⅞"	15c
A2226	.5	2⅝x1"	21c
		200 V. D.C. WORKING	
A2227	.05	1⅛x¾"	9c
A2228	.1	1⅝x1½"	
A2229	.25	1⅝x¾"	15c
A2230	.5	2 x1¼"	21c
A2231	1.	2⅝x1½"	29c

"SPECIAL UNIVERSAL" DRY ELECTROLYTICS

Special units designed to fill those applications which cannot be taken care of with Standard Mallory Units. Exact duplicate replacements of originals in the sets listed.

IN METAL CANS

3-2-1-1 Mfd., 450 Wkg. Volts

A3355. Type UR-181. For Philco 16, 17, 18, 116, 118, 200, 201, 640, 650, 660, 680. Size 1⅝x2¾". NET..... **$1.23**

8-8 Mfd., 350 Wkg. Volts

A2733. Type SR-605. For Atwater Kent 135Z, 215Z, 237Q, 305Z, 467Q, 565Z, 666, 766. Size 1⅝x3⅛". NET..... **91c**

CARDBOARD CASED

8-8 Mfd., 250-300 Wkg. Volts

A3354. Type UR-180. For Crosley 95, 96, 98, 99, 102, 129-1, 130, 130-1, 132, 132-1, 134, 136-1, 146-1, 148, 154, 157, 158, 160, 163, 167, 169, 176. Size 1⅝x1⅛x2¼". NET..... **76c**

5-25-10 Mfd., 150 Wkg. Volts

A3356. Type UR-182. For Belmont 53, 425, 440, 525, 530, 540, 625, 650; Echophone 711A; Emerson H5, 30AW, 33AW, 250, 250AW, 321AW, 350AW, 30LW, 33LW, 250LW, 321LW, 350LW; Grunow 5B, 501, 550; Zenith 701, 702, 801; Wells-Gardner 05A, 5B. Size 1 9/16x1⅝x2⅝". NET..... **$1.15**

4-4-4 Mfd., 150 Wkg. Volts

A3357. Type UR-183. For Kadette F. Jr., 40 Jewell, 90. Size ⅝x1¼x2¼". NET..... **79c**

8-8-8-5-5 Mfd., 200-25 Wkg. Volts

A2734. Type UR-189. For Allied Radio F9515, F9525, F9527; Belmont 430; G.E. J100, K43, L52, L52A, M41, M42, M49; RCA T4-8, T4-9, 100, 101, 103, 112, 301. Size 1¼x1½x3". NET..... **$1.47**

8-8-25 Mfd., 350-300-25 Wkg. Volts

A2735. Type SR-611. For Atwater Kent 816; Zenith 7M91S, 7M91D (Chassis 5706). Size 2x2x2⅛". NET..... **$1.09**

8, 8-8, 12-12 Mfd., 450-250-25 Wkg. Volts

A2736. Type SR-614. For Grunow 6D (670, 671), 6F (690, 691). Size 1⅞x2¾x2 15/16". NET..... **$1.71**

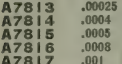
KNIGHT BY-PASS AND REPLACEMENT CONDENSERS

KNIGHT MOLDED BAKELITE MICA CONDENSERS

Insulated Hole Type

Genuine bakelite molded units with insulated mounting holes. Metal terminals provided may also be used for mounting. Highest quality mica construction. $1\frac{1}{4}$x$2\frac{1}{32}$" body.

No.	Mfd.	
A7810	.00005	NET EACH 8c
A7811	.0001	
A7812	.0002	
A7813	.00025	
A7814	.0004	
A7815	.0005	PER DOZ. 85c
A7816	.0008	
A7817	.001	
A7818	.0015	EA. 12c Per Doz. $1.30
A7819	.002	
A7820	.0025	
A7821	.003	
A7822	.005	15c
A7823	.006	19c
A7824	.008	26c
A7825	.01	32c



PIGTAIL & LUG TYPE

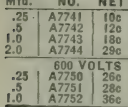
Highest quality mica units. Two types; one with $1\frac{1}{4}$" tinned copper leads, $\frac{3}{8}$" square body; other with lugs, $\frac{3}{4}$x$1\frac{5}{16}$" body.

Pigtail No.	Lug No.	Cap. Mfd.	
A7827	A7844	.00025	NET EACH 8c
A7828	A7845	.00004	
A7829	A7846	.00005	
A7830	A7847	.0001	
A7831	A7848	.00015	
A7832	A7849	.0002	
A7833	A7850	.00025	
A7834	A7851	.0004	Per Doz. 85c
A7835	A7852	.0005	
A7836	A7853	.0008	
A7837	A7854	.001	
A7838	A7855	.0015	12c EACH Per Doz. $1.30
A7839	A7856	.002	
A7840	A7857	.0025	
A7841	A7858	.003	
A7842	A7859	.004	

KNIGHT WAXED UNCASED REPAIR SECTIONS

Wax-dipped; designed for replacement use in filter block repair work. Compact; high dielectric resistance. 6" color coded leads are of heat-proof push-back.

Mfd.	200 VOLTS No.	NET	400 VOLTS No.	NET
.25	A7741	10c	A7746	17c
.5	A7742	12c	A7747	19c
1.0	A7743	18c	A7748	29c
2.0	A7744	29c	A7749	54c
	600 VOLTS		1000 VOLTS	
.25	A7750	26c	A7754	38c
.5	A7751	28c	A7755	45c
1.0	A7752	36c	A7756	75c



SPARTON TUBULAR REPLACEMENT

Exact duplicate 400 volt units for Sparton sets. Slotted mounting lug.

No.	Mfd.	NET
A7769	.25	26c
A7770	.5	29c
A7771	1.0	31c

KNIGHT CARTRIDGE CONDENSERS

Dependable tubular paper condensers. Compact in size. Encased in double-impregnated moisture-proof cardboard containers with self-supporting $2\frac{1}{4}$-inch tinned wire leads. Non-inductively wound. Unaffected by temperature or humidity. These are rugedly built, high quality, inexpensive units, exceptionally fine for replacement use. Dual units have common connection to strap lug.

400 VOLTS

No.	Mfd.	
A7915	.001	EACH 6c
A7916	.002	
A7917	.003	
A7918	.004	
A7919	.005	
A7920	.006	
A7921	.01	7c
A7922	.02	
A7923	.03	
A7924	.04	
A7925	.05	
A7926	.06	
A7927	.1	8c
A7928	.25	10c
A7929	.5	15c
A7930	1.0	30c

600 VOLTS

No.	Mfd.	
A7931	.001	EACH 7c
A7932	.002	
A7933	.003	
A7934	.004	
A7935	.005	
A7936	.006	
A7937	.01	8c
A7938	.02	
A7939	.03	
A7940	.04	
A7941	.05	
A7942	.06	
A7943	.1	10c
A7944	.25	15c
A7945	.5	19c

200 VOLTS

No.	Mfd.	NET
A7910	.1	7c
A7911	.2	
A7912	.25	
A7913	.5	13c
A7914	1.0	26c

DUAL UNITS

No.	Mfd.	Volts	NET
A7946	.1—.1	200	14c
A7947	.25—.25	200	16c
A7948	.1—.1	400	14c
A7949	.1—.1	600	24c

HANDY CONDENSER ASSORTMENT

Complete handy assortments of the most popular cartridge by-pass condensers used in replacement work. Durable; inexpensive; conservatively rated. Quality condensers to meet your every service need. Conveniently mounted on neat strips for hanging on the wall or for carrying in your kit. An incomparable value. 12 condensers to a strip, one of each value.

A7760. Consists of:

Mfd.	Volts	Mfd.	Volts
.001	400	.004	600
.003	400	.006	600
.005	400	.01	600
.006	400	.03	600
.01	600	.05	600
.002	600	.1	600

YOUR NET PRICE 85c

A7761. Consists of:

Mfd.	Volts	Mfd.	Volts
.1	200	.05	400
.25	200	.06	400
.5	200	.1	400
1.0	200	.25	400
.01	400	.5	400
.03	400	1.0	400

YOUR NET PRICE $1.40

KNIGHT BATHTUB CONDENSERS

Non-inductive compact condensers for all by-pass requirements. Permanently sealed and moisture-proof. Paper dielectric construction in metal case. Style A Size: $1\frac{13}{16}$x1x$\frac{3}{4}$ inches.

BY-PASS—STYLE A

No.	Mfd.	Volts	NET
A7773	.1	200	16c
A7774	.25	200	20c
A7775	.5	200	24c
A7777	.1	300	20c
A7778	.25	300	24c
A7779	.5	300	32c
A7781	.05	400	14c
A7782	.1	400	17c
A7783	.25	400	21c
A7784	.1-.1	400	27c

STYLE B

Compact; hermetically sealed. Thoroughly impregnated; with lug connections. In dual units, center lug is common; in triple and quadruple units can is common. Single unit size: $1\frac{19}{32}$x2x$\frac{3}{4}$". Multiple units. 2x$2\frac{1}{4}$x$\frac{3}{4}$".

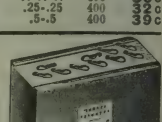
Single Section

No.	Mfd.	Volts	NET
A7786	1.0	200	31c
A7787	2.0	200	49c
A7789	1.0	300	31c
A7791	1.0	400	32c
A7792	.25	400	26c
A7793	.5	400	33c

Multiple Section

No.	Mfd.	Volts	NET
A7794	.1-.1-.1-.1	200	52c
A7795	.25-.25	300	31c
A7796	.5-.5	300	38c
A7797	.1-.1-.1	400	36c
A7798	.25-.25	400	32c
A7799	.5-.5	400	39c

EXACT DUPLICATE CONDENSERS



Highest quality exact duplicate replacement condensers and condenser blocks. These units are of standard make and have the exact capacities and ratings of the original models. Accurately constructed to precise original specifications, with identical mounting holes, capacities, voltages and color coding. These condensers fit exactly; no rewiring or redrilling is necessary. Each unit is designed with wide margins of safety. These are the replacement condensers to use for lasting service. When ordering, it is best to state the name and model number of the set; wherever possible, send in the old condenser.

ATWATER KENT

No.	Model	NET
A7105	37 (with choke)	$2.94
A7106	Speaker Filter for all sets (A.K. 14902)	.59
A7107	40, 42, 46, 52, 37, 37-A, 39, ($\frac{1}{4}$-$\frac{1}{4}$-$\frac{1}{4}$)	.59
A7108	35	.59
A7116	37, 38, Condensers only (no choke)	1.55
A7117	55, 55c, Early & late types	3.10
A7121	43, 46, 47-53, Condensers only	3.43
A7128	40, 42, 44, 45, 52, 56, 57, Condensers only	1.48

BRUNSWICK

A7142	14, 21, 31	4.60

CLARION

A7136	40	5.75
A7137	A.C., 60	5.20
A7144	260	2.95

ECHOPHONE

A7138	S-3	2.55
A7139	S-4	2.75

FADA

A7140	35, 352, No. 1790X	3.85

GENERAL MOTORS

No.	Model	NET
A7099	1200473 (.1—.1—.1)	$0.59

KNIGHT

A7109	SG8	3.40
A7110	SG8 (212)	.52
A7111	SG8 (213)	.58
A7112	SG8 (214)	.88
A7113	AC5 (1.0)	.73
A7114	AC5 (.5-.5)	.55

MAJESTIC

A7115	70, 7P6, 7BP6	1.73
A7118	90, 9P6, 9BP6 (With Resistors)	1.85
A7119	90 (.5)	.34
A7120	180, 8P6	2.95
A7122	50	2.20
A7123	Series 20 (Choke and Input)	5.75
A7148	90B, 100B	2.75

KOLSTER

A7134	K20, 22, 25, 27, 42	3.20

RCA-VICTOR

A7124	R32, RE45, 52	4.20
A7260	80, 82, 86	6.40
A7263	R8, R10, R12, RE19	5.60
A7264	R64, 9-54, R-18X	6.50

SPARTON

A7126	AC7, 62, 63	4.60
A7127	930	3.95

SPARTON (Cont'd)

A7265	69, 79	$4.25
A7266	89A	3.70
A7267	301A	4.90
A7256	69A, 79A, 89, 78A	4.25

TEMPLE

A7129	8-60, 8-80, 8-90	3.60

U. S. RADIO-APEX

A7257	26	1.55
A7258	28	1.95
A7131	41, 43	1.85
A7259	42	2.30
A7132	46, 47	1.70
A7133	80, 81	2.62
A7269	37	2.60
A7270	36 (8 leads)	3.30
A7271	48	2.20

ATWATER KENT POWER PACK

For Models 40, 42, etc.

An exact duplicate. For A.K. 40, 40F, 42, 42F, 44, 44F, 45, 52, 56, 57.

A7102. NET..... $8.85

We can supply replacement condenser units for any standard radio receiver. Send in your old condenser block with deposit. We will duplicate it at an attractive low price. Please state whether you wish old block returned.

KNIGHT ELECTROLYTIC CONDENSERS

Ruggedly-made efficient electrolytic condensers designed for use in every service application. These units are of the best standard design and manufacture. They are thoroughly impregnated against moisture and are built to last. Ratings are conservative, assuring you of maximum dependable performance and long life. Units are available in both cardboard containers and metal can types. Multiple section units are listed in the most popular combinations to fit practically every replacement condenser requirement. For low price, long life, compactness, low power factor and reliability, these Knight electrolytic condensers are values that can't be matched. Use them in your radio service and building work. Knight electrolytic condensers will bring you satisfied customers, bigger profits and larger savings. Our complete selection listed below will fill all needs.

DRY ELECTROLYTIC CONDENSERS

IN CARDBOARD CONTAINERS

Popular values in single and multiple section condensers. Adaptable to practically any repair job or for all original requirements. Heavily impregnated cardboard containers for maximum durability. Entirely wax-filled. Conservatively rated at 550 volts D.C. peak; 450 volts D.C. working. Compact and sturdy units. Equipped with long flexible insulated wire leads.

Single Section—550 Volts

No.	Mfd.	Size	NET
A3823	2	4⅛x1⅝x ½	26c
A3824	4	4⅛x1⅝x ½	30c
A3825	6	4⅛x1⅝x ¾	34c
A3826	8	4⅛x1⅝x ¾	38c
A3827	10	4⅛x1⅝x1⅛	44c
A3828	12	4⅛x1⅝x1⅛	48c
A3811	16	4⅛x1⅝x1⅛	52c

Multiple Section—550 Volts

No.	Mfd.	Size	NET
A3829	4-4	4⅛x1⅝x1⅞	48c
A3830	4-8	4⅛x1⅝x1⅞	56c
A3831	6-6	4⅛x1⅝x1⅛	58c
A3832	8-8	4⅛x1⅝x1⅛	60c
A3833	4-4-4	4⅛x1⅝x1¾	72c
A3834	8-8-8	4⅛x1⅝x1¾	89c

BANTAM SIZE DRY ELECTROLYTICS

Will fit in the smallest space. Ideal replacement units. In impregnated cardboard containers with six inch color-coded insulated wire leads. Tabs provided for ease in mounting.

PEAK VOLTS—550 WORKING VOLTS—450

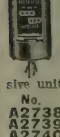
No.	Mfd.	Size	NET
A3813	2	2¼ x1 x ½	24c
A3814	4	2⅝ x1⅛ x ¾	30c
A3815	6	2⅝ x1¼ x ⅞	34c
A3816	8	2⅝ x1¼ x ⅞	38c
A3817	12	2½ x1⅝ x1¼	52c
A3818	4-4	2 3/16x1 7/16x1⅛	48c
A3819	8-8	2¼ x1⅞ x1⅛	60c

VOLTAGE DOUBLING DUAL SECTIONS

Especially designed for A.C.-D.C. sets which have voltage doubling circuits using type 25Z5 tube. With 4 colored flexible 6 inch insulated wire leads—2 black and 2 red. Each capacity is a separate condenser.

175 VOLT D.C. PEAK

No.	Mfd.	Size	NET
A3807	10-10	2¼x1⅜x1⅛	54c
A3808	12-12	2¼x1⅜x1⅛	58c
A3809	16-16	2⅜x1½x1¼	72c
A3810	20-20	3½x1¾x1¼	80c



ALUMINUM-COATED CARDBOARD CONTAINERS

Popular replacements for A.C.-D.C. and midget A.C. receivers. Containers are of aluminum-coated cardboard. Spade lugs are provided for easy mounting. Flexible insulated wire leads emerge from bottom of units. Ratings are conservative, insuring good life and efficient operation. Containers are 4½ inches high. These inexpensive units will build up your service profits.

No.	Mfd.	Volts	Dia.	NET
A2738	8-16	500	1 11/16"	90c
A2739	4-8	500	1½"	54c
A2740	8-8	500	1 11/16"	60c
A2741	16	500	1½"	54c
LOW VOLTAGE ELECTROLYTICS				
A2742	8-8-8	200	1½"	70c
A2743	8-14 / 10-10	200 / 35	1 11/16"	90c
A2744	12-16 / 10-10	200 / 35	1 11/16"	90c

IN METAL CONTAINERS INSULATED TYPE

Dry electrolytics mounted in round aluminum insulated containers. Standard stud and nut mounting. With insulated wire leads. Peak voltage, 550 D.C.; working volts, 450 D.C.

No.	Mfd.	Size	NET
A3850	2	2⅝x1⅝	30c
A3851	4	2⅝x1⅝	36c
A3852	6	4⅝x1⅝	40c
A3853	8	4⅝x1⅝	42c
A3854	10	4⅝x1⅝	48c
A3855	12	4⅝x1½	56c
A3856	4-4	4⅝x1⅝	52c
A3857	6-6	4⅝x1½	60c
A3858	8-8	4⅝x1½	72c

MULTIPLE SECTIONS

Popular replacements. Absolutely dry and in moisture-proof round aluminum containers. Each section is separately wrapped and entirely insulated from the others. All negative terminals are grounded to the can. Positive leads are brought out to soldering lugs at top. Upright mounting. Working voltage, 450; peak voltage, 550.

2½ INCH CONTAINERS

No.	Mfd.	Length	NET
A3860	8-8	4⅜"	$0.70
A3861	4-4-4	4⅜"	.86
A3862	5-15	4⅜"	.88

3 INCH CONTAINERS

No.	Mfd.	Length	NET
A3863	8-8-8	4⅜"	$1.04
A3864	8-8-8-8	4⅜"	1.44
A3865	9-9-18	4⅜"	1.50

3½ INCH CONTAINERS

No.	Mfd.	Length	NET
A3866	9-9-18-18	4⅜"	$1.94

DRAWN ALUMINUM RECTANGULAR CONTAINERS

Multiple section dry electrolytics in seamless drawn aluminum containers. Wax-filled and moisture-proofed. All sections are completely insulated from each other and from the container. Two terminal lugs are provided for each section so that they may be used in series or parallel if desired. Working voltage 450 D.C.; peak voltage 550 D.C.

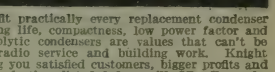
550 V. DC PEAK VOLTAGE

No.	Mfd.	Size	NET
A3873	4-4	4⅜x1½x1½	$0.58
A3874	4-6	4⅜x1 3/16x1 7/16	.66
A3875	4-8	4⅜x1 3/16x1 7/16	.68
A3876	6-6	4⅜x1 3/16x1 7/16	.70
A3877	6-8	4⅜x1 3/16x1 7/16	.70
A3878	8-8	4⅜x1 3/16x1 7/16	.72
A3879	4-4-4	4⅜x1 3/16x1 7/16	.85
A3880	6-6-6	4⅜x1¾x1¾	1.00
A3881	8-8-8	4⅜x1¾x1¾	1.08

KNIGHT WET ELECTROLYTICS

Increasingly popular with Service men and Experimenters for heavy-duty work in amplifiers, etc. Self-healing properties and ability to withstand voltage overloads make these units dependable in operation. Low leakage current and excellent power factor assure long life even under excessive operating voltages. Housed in round aluminum containers, 1½" diameter and 4⅜" high. Inverted stud mounting requires only one mounting hole. Can is negative. These highly efficient units are ideal for use in circuits where dry electrolytics break down under load.

No.	Mfd.	Peak Volts	NET
A2712	8	600	65c
A2713	4	500	36c
A2714	8	500	40c
A2715	10	500	44c
A2716	12	500	48c



KNIGHT CARTRIDGE DRY ELECTROLYTICS

Encased in impregnated moisture-proof cardboard, with 2" bare wire leads. Length 2½ in., diameter 9/16 to 1 in. High capacity at small cost. Efficient units.

No.	Mfd.	Peak Volts	NET
A3776	1	500	20c
A3777	2	500	24c
A3779	4	500	30c
A3799	8	500	33c
A3785	4	300	26c
A3786	8	300	30c
A3783	4	200	25c
A3784	8	200	27c
A3797	12	200	34c
A3798	16	200	38c
A3795	4-4	200	32c
A3796	8-8	200	48c
A3787	5	75	20c
A3788	10	75	24c
A3789	25	75	30c
A3790	5	35	16c
A3791	10	35	20c
A3792	25	35	28c
A3793	5-5	35	25c
A3794	10-10	35	28c
A3800	60	15	24c

SPECIAL VALUES

QUALITY DRY ELECTROLYTIC CONDENSERS

Good quality dry electrolytic condensers at extremely low prices. Supplied in both aluminum containers and in waxed cardboard cartons. Conservatively rated at 450 volts D.C. working voltage, 550 volt peak. Stock up for speedy and better service work and sales. All cardboard and metal can units have flexible leads except for A3845 and A3846 which have lug terminals.

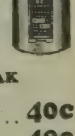
550 VOLTS D.C. PEAK SINGLE CARDBOARD UNITS

A3836. 2 mfd.	1⅛x¾x3"	21c
A3837. 4 mfd.	1⅛x⅞x2 9/16"	23c
A3838. 8 mfd.	1⅜x⅞x4⅛"	26c

SINGLE METAL CAN UNIT

A3842. 8 mfd.	1⅜x3¾"	30c

MULTIPLE UNITS



Each section of these units is a separate dry electrolytic condenser of the same high quality as those listed above. Especially designed to fill the need for several high capacity condensers for use in a small space.

550 VOLTS D.C. PEAK CARDBOARD

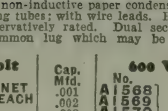
A3839. 4-4 mfd.	1⅜x1⅛x3"	40c
A3840. 8-8 mfd.	1½x1⅛x2 9/16"	49c
A3841. 8-8-8 mfd.	2x1⅛x3"	77c

METAL CAN

A3843. 4-4 mfd.	1½x3½"	42c
A3844. 8-8 mfd.	1½x3½"	58c
A3845. 8-8-8 mfd.	3x4⅝"	88c
A3846. 5-15 mfd.	2½x4"	72c

AEROVOX CONDENSERS

AEROVOX CARTRIDGE CONDENSERS



Compact non-inductive paper condensers sealed in insulating tubes; with wire leads. High grade units, conservatively rated. Dual section units have a common lug which may be used for mounting.

400 Volt No.	NET EACH	Cap. Mfd.	600 Volt No.	NET EACH
A1550	9c	.001	A1568	9c
A1551		.002	A1569	
A1552		.003	A1570	
A1553		.004	A1571	
A1554		.005	A1572	
A1555		.006	A1573	
A1556		.01	A1574	
A1557		.015	A1575	10c
A1558		.02	A1576	
A1559		.03	A1577	
A1560		.05	A1578	12c
A1561	12c	.1	A1579	15c
A1562	15c	.25	A1580	21c
A1563	21c	.5	A1581	29c
A1564	27c	.1-.1	A1582	30c
A1565	41c	.25-.25	A1583	50c

1000 Volt Tubular Units

No.	Mfd.	List	NET
A1586	.006	20c	12c
A1587	.01	20c	
A1588	.015	20c	
A1589	.02	24c	14c
A1590	.03	27c	16c
A1591	.05	35c	21c
A1592	.1	40c	24c

AEROVOX BAKELITE MICA CONDENSERS

TYPE 1467

Type 1468

TYPE 1460

A compact "postage stamp type" condenser. May be used in any radio by-pass circuit. Made of selected Ruby mica and especially adapted to high-frequency circuits in all-wave receivers. Sealed in a molded bakelite case; thoroughly impregnated; moisture-proof. Absolutely impervious to temperature changes.

Cap. Mfd.	No. Type 1467	No. Type 1468	No. Type 1460	NET EACH
.00004	A1391	A1488	A1404	9c
.00005	A1392	A1489	A1405	
.000075	A1393	A1490	A1406	
.0001	A1394	A1491	A1407	
.00015	A1395	A1492	A1408	12c
.0002	A1396	A1493	A1409	
.00025	A1397	A1494	A1410	
.00037	A1398	A1495	A1411	
.0005	A1399	A1496	A1412	
.001	A1400	.....	A1413	15c
.0015	A1401	.....	A1414	18c
.002	A1402	.....	A1415	18c
.0025		.....	A1416	21c
.003		.....	A1417	21c

TYPE 1450 CONDENSERS

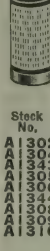
Accurate mica-tinfoil condensers in bakelite cases. Handy soldering lugs. Working voltage up to 500 volts D.C. Tested at 1000 volts. Thoroughly sealed against changes in humidity. Capacity of units is clearly marked on case.

No.	Mfd.	No.	Mfd.	NET EACH
A1420	.00005	A1425	.0002	15c
A1421	.00007	A1426	.00025	
A1422	.000075	A1427	.00037	
A1423	.0001	A1428	.0005	

No.	Mfd.	List	NET
A1429	.001	30c	18c
A1430	.0015	30c	18c
A1431	.002	35c	21c
A1432	.0025	35c	21c
A1433	.003	40c	24c
A1434	.004	45c	26c
A1435	.005	45c	26c
A1436	.006	55c	32c
A1437	.008	60c	35c
A1438	.01	70c	41c
A1439	.015	85c	50c
A1440	.02	95c	55c

AEROVOX ELECTROLYTIC CONDENSERS

ROUND METAL CAN DRY ELECTROLYTICS



Adapted to all radio filter circuits. Absolutely dependable, hermetically sealed. Type E5 is 525 Volt Surge, 450 Volt DC working; E6 is 600 Volt Surge, 475 Volt working. Provided with clamping rings for easy mounting. Conservative voltage ratings assure you of long trouble-free life. Will handle filter requirements of practically all radio receivers.

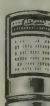
TYPE E-5 UPRIGHT
525 Volt D. C. Max. Surge

Stock No.	Cap. Mfd.	Size Dia.	Ht.	NET EACH
A1302	4	1¾ x	2¾	$0.50
A1304	8	1¾ x	4⅛	.61
A1343	12	1⅞ x	4¼	.82
A1305	5-15	2½ x	4⅛	1.35
A1306	8-8	2½ x	4⅛	1.06
A1344	8-16	2½ x	4⅛	1.38
A1308	8-8-8	3 x	4⅛	1.59
A1309	9-9-18	3 x	4⅛	2.20
A1310	8-8-8-8	3 x	4⅛	2.12

TYPE E-6 UPRIGHT
600 Volt D. C. Max. Surge

Stock No.	Cap. Mfd.	Size Dia.	Ht.	NET EACH
A1311	4	1¾ x	2¾	$0.73
A1313	8	1¾ x	4⅛	.88
A1333	5-15	2½ x	4⅛	1.97
A1315	8-8	2½ x	4⅛	1.62
A1316	8-8-8	3 x	4⅛	2.35

TYPE G INVERTED



Standard size, single section inverted mounting condensers, with negative lead grounded to can. 525 V. D.C. surge and 600 V. D.C. surge listed below. Can dia. 1⅝".

No.	Mfd.	Volts	NET
A1317	4	525	50c
A1319	8	525	61c
A1345	12	525	82c
A1320	4	600	73c
A1322	8	600	88c

TYPE 2G INVERTED

Double section inverted mounting condensers. Negatives grounded to can. 525 volts surge, 450 volts D.C. working.

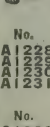
No	Mfd.	Dia.	Ht.	NET
A1330	4-4	1⅝ x	3¼	76c
A1331	8-8	1⅝ x	5¼	94c

TYPE I—INVERTED

Similar to type G above, but with negative terminal insulated from can. Maxium permissible surge voltage is indicated below. Diameter of aluminum can, 1⅝ inches.

No.	Mfd.	Volts	NET
A1324	4	525	$0.50
A1326	8	525	.61
A1346	12	525	.82
A1347	16	525	.91
A1327	4	600	.73
A1329	8	600	.88

ULTRA-COMPACT TYPE GL55 INVERTED



An ultra-compact metal can electrolytic for general replacement purposes or for use where space is at a premium. Sections are insulated from can. Equipped with long flexible leads. Has threaded hard-rubber stem for inverted mounting. Particularly adapted to replacement work.

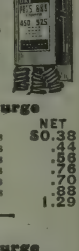
525 Volt Max. Surge

No.	Mfd.	Size	NET
A1228	4	1x2¾/16"	50c
A1229	8	1x2 11/16"	61c
A1230	12	1x3 9/16"	82c
A1231	16	1x4⅞"	91c

250 Volt Max. Surge

No.	Mfd.	Size	NET
A1232	4	1x2¾/16"	44c
A1233	8	1x2 11/16"	56c
A1234	12	1x3 9/16"	66c
A1235	16	1x3 9/16"	79c

COMPACT CARDBOARD DRY ELECTROLYTICS



Extremely small electrolytic units. May be used wherever mounting space is limited, either for replacements or for original installations. Non-leaking; non-corrosive; absolutely dry. Wax impregnation assures dependable long life even through wide range of atmospheric conditions. Flexible leads are provided for varying circuit requirements.

TYPE PBS-5
525 Volt D. C. Max. Surge

No.	Mfd.	Size	NET
A1236	2	½ x ¾x27/16	$0.38
A1237	4	9/16x1 x27/16	.44
A1238	8	11/16x1⅛x27/16	.56
A1239	12	13/16x1⅛x33/16	.76
A1240	4-4	1⅛ x1⅛x27/16	.70
A1241	8-8	1⅞x1⅛x27/16	.88
A1242	8-8-8	1¼ x1½x3	1.29

TYPE PBS-2
250 Volt D. C. Max. Surge

No.	Mfd.	Size	NET
A1243	4	½ x ¾ x27/16	$0.38
A1244	8	9/16x13/16x27/16	.47
A1245	12	11/16x1⅛ x27/16	.56
A1246	16	11/16x1⅛ x27/16	.62
A1247	8-8	13/16x13/16x27/16	.73
A1248	8-16	1¼ x1⅛ x27/16	.85
A1249	8-8-8	1⅞ x1 9/16x27/16	1.12

TYPE "P" ELECTROLYTICS

Sturdy, wax-filled units; compact, and conservatively rated. Flexible leads are securely anchored. Unaffected by moisture.

525 Volt Max. Surge

No.	Mfd.	Size	NET
A1380	2	¾ x1⅜ x2⅝	$0.38
A1381	4	¾ x1⅜ x4⅛	.44
A1383	8	15/16x1⅜ x4⅛	.56
A1358	12	1⅛ x1⅜x4⅛	.76
A1359	16	1⅞x1⅜x4⅛	.85
A1384	4-4	1⅝x1⅜ x4⅛	.70
A1385	8-8	1⅞x1⅜x4⅛	.88
A1360	8-16	1½ x2 x4⅛	1.12

600 Volt Max. Surge

No.	Mfd.	Size	NET
A1386	2	¾ x1⅜x2⅝	$0.56
A1387	4	¾ x1⅜x1⅛	.68
A1389	8	15/16x1⅜x1⅛	.79

TUBULAR ELECTROLYTICS

Light and compact; will serve for many by-pass and filter requirements. In cardboard tube containers completely sealed. Wire leads are securely riveted to condenser tabs. Excellent for replacement use, or to fit small mounting space in original construction work.

No.	Mfd.	Wkg. V.	Size	NET
A1281	2	450	¾x2¼	38c
A1283	8	450	15/16x2¾	56c
A1284	4	200	¾x2¼	38c
A1285	8	200	⅞x2¼	47c
A1286	25	100	15/16x2¾	56c
A1287	5	50	¾ x2¼	29c
A1288	10	50	⅞ x2¼	38c
A1289	25	50	⅞x2¼	47c
A1290	50	50	1⅛x2¾	71c
A1291	5	25	⅞x2¼	29c
A1292	10	25	⅞ x2¼	29c
A1293	25	25	⅞x2¼	38c
A1294	50	25	1⅛x2¾	56c

METAL CAN WET ELECTROLYTICS

Popular, compact electrolytics with standard stud and nut inverted mounting. Positively non-leaking. Self-healing for unusually long-life, even with excessive voltage surges. 500 Volts DC peak, 450 volts D.C. working.

Stock No.	Cap. Mfd.	Size Dia.	Ht.	NET EACH
A1295	4	1⅜ x	4¾	$0.47
A1296	6	1⅜ x	4¾	.50
A1297	8	1⅜ x	4¾	.61
A1298	12	1⅜ x	4¾	.68
A1299	16	1⅜ x	4¾	.79
A1335	20	1⅜ x	4¾	.88
A1336	30	1⅜ x	4¾	1.06

CORNELL-DUBILIER CONDENSERS

"DWARF" TUBULAR PAPER CONDENSERS

TYPE DT

Reliable non-inductive all-purpose condensers. Wax-impregnated and triple-sealed against moisture. All are wound on wooden cores with paper dielectric. Low power factor and high DC series resistance make these units ideal for every job requiring the best. Securely fastened 2½" tinned leads make connections easy.

400 Volt

No.	Mfd.	Size	NET
A3300	.01	1⅜x⅞x 9/16"	9c
A3301	.02	1⅜x⅞x 9/16"	
A3302	.05	1 7/16x⅞x 9/16"	
A3303	.1	1 7/16x⅞x 9/16"	12c
A3304	.25	2x1⅜x 9/16"	15c
A3305	.5	2x1⅜x⅞"	21c
A3306	1.0	2⅝x1"	29c
A3307	.1-.1	2¼x⅞x⅞"	32c
A3308	.25-.25	2¼x1"	50c

600 Volt

No.	Mfd.	Size	NET
A3309	.0001	1⅜x⅞x 9/16"	9c
A3310	.00025	1⅜x⅞x 9/16"	
A3311	.0005	1⅜x⅞x 9/16"	
A3312	.001	1⅜x⅞x 9/16"	
A3313	.003	1⅜x⅞x 9/16"	
A3314	.005	1⅜x⅞x 9/16"	
A3315	.01	1⅜x⅞x 9/16"	
A3316	.02	1 7/16x⅞x 9/16"	12c
A3317	.05	1 7/16x⅞x 9/16"	12c
A3318	.1	2x1⅜x⅞"	15c
A3319	.25	2x⅞x 9/16"	21c
A3320	.5	2x1"	29c
A3321	.1-.1	2¼x1"	38c

MOLDED BAKELITE MICA CONDENSERS

Ideal by-pass and coupling condensers for all RF and HF circuits. Excellently constructed of the finest materials available. Conservative working voltage rating of 500 V. D.C. is based Service Engineers, Amateurs, and Set-builders on test voltage of 1000 V. D.C. Discriminating will find innumerable uses for these fine mica condensers. TYPE W, to .00025 are 1x⅝x3 3/16"; balance, ¾x⅝x3 3/16". TYPE L, 1x1⅝x3 3/16".

Cap. Mfd.	No. Type W	No. Type L	NET EACH Either Type
.00003	A3641	A3652	9c
.00005	A3642	A3653	
.0001	A3643	A3654	
.00025	A3644	A3655	
.0005	A3645	A3656	12c
.001	A3646	A3657	15c
.002	A3647	A3658	21c
.003	A3648	A3659	24c
.004	A3649	A3660	26c
.005	A3650	A3661	32c
.006	A3651	A3662	35c

VIBRATOR REPLACEMENT CONDENSERS

Oil-filled, completely sealed units for use in auto radio vibrator power supplies. Will serve better than the original condensers. Three types: **FLAT** = in small flat metal container with insulated leads; **TUB** = in tubular cardboard container with tinned leads; **RECT.** = in flat rectangular metal container with insulated leads.

No.	Type	Mfd.	Size	NET
A3722	FLAT	.01	⅝ x⅞ x 1¼	26c
A3723	FLAT	.015	⅝ x⅞ x 29/32	
A3724	FLAT	.02	⅝ x⅞ x 1¼	
A3725	FLAT	.03	1⅛ x⅞ x 1¼	
A3726	TUB.	.01	1⅝ x⅝ dia.	18c
A3728	TUB.	.02	1⅝ x¾ dia.	24c
A3729	TUB.	.03	2⅛ x 11/16 dia.	29c
A3730	RECT.	.01	3 9/16x1 7/32x⅝	35c

DRY ELECTROLYTIC CONDENSERS

CARDBOARD CASED

DWARF MIDGETS

TYPE JR

Dependable and inexpensive compact dry electrolytic condensers. Adequately protected against humidity. In small silvered cardboard containers fitted with color-coded flexible wire leads and mounting feet. For use in limited space and ideal for every type of radio service job. Working voltage, 450 V. D.C.

525 Volts D.C. Peak

No.	Mfd.	Size	NET
A3325	2	2⅞x ¾x ½"	$0.38
A3326	4	2⅞x1 9/16x 9/16"	.44
A3327	8	2⅞x1½x1 1/16"	.56
A3328	10	2⅞x1⅛x ⅞"	.68
A3329	12	2 7/16x1⅛x1"	.76
A3330	4-4	3 x1⅛x ⅞"	.71
A3331	4-8	3 x1⅛x1½"	.79
A3332	8-8	3 x1⅜x1½"	.88
A3324	8-16	2½ x2 x1½"	1.26

TYPE EH

Build up your service profits with these high quality electrolytic condensers. In impregnated cardboard cases with punched flanges to facilitate mounting. Multiple units have common negative leads. Working voltage, 450 V. D.C., Surge voltage, 525 V. D.C. All units have long flexible insulated wire leads. Carefully built for long service.

525 Volts D.C. Peak

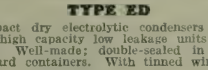
No.	Mfd.	Size	NET
A3601	4	4⅛x1⅝ x ¾"	$0.44
A3603	8	4⅛x1⅝ x1"	.56
A3605	4-4	4⅝x1 9/16x1⅜"	.71
A3606	4-8	4⅝x1 9/16x1 3/16"	.79
A3609	8-8	4⅞x1 9/16x1½"	.88
A3610	4-4-4	4⅛x1 9/16x1½"	1.06
A3611	8-8-8	4⅞x2 x2"	1.29

"HANDY MIKE" TYPE JHM

Especially developed for use in AC-DC sets or in other circuits where the working voltage does not exceed 250 volts. Conservatively rated at 300 volts D.C. peak. Extremely small in size. Equipped with color-coded flexible insulated wire leads. A compact condenser at a low price.

300 Volts D.C. Peak

No.	Mfd.	Size	NET
A3343	4	2½x1⅛x⅝"	38c
A3344	8	2½x1⅛x⅝"	50c
A3345	10	2½x1⅛x1¼"	56c
A3346	12	2½x1⅛x1½"	62c
A3347	16	2½x1⅛x1½"	68c
A3348	20	2½x1⅛x1½"	73c
A3349	25	2½x1⅞x1½"	82c



TUBULAR ELECTROLYTICS

TYPE ED

Compact dry electrolytic condensers for use where high capacity low leakage units are required. Well-made; double-sealed in durable cardboard containers. With tinned wire leads.

No.	Mfd.	Peak V.	Size	NET
A3617	5	35	2⅜ x⅝"	29c
A3618	10	35	2⅜ x¾"	
A3619	20	35	2⅜ x⅞"	35c
A3620	25	35	2⅜ x1"	38c
A3622	5	75	2⅜ x¾"	29c
A3623	10	75	2⅜ x⅞"	38c
A3624	25	75	2⅜ x1⅛"	47c
A3625	5	150	2⅜ x¾"	32c
A3626	10	150	2⅜ x1"	41c
A3664	4	300	2¾ x⅝"	38c
A3665	8	300	2¾ x⅞"	50c
A3666	10	300	2¾ x1"	56c
A3667	12	300	2¾ x1"	62c
A3668	16	300	2¾ x1⅜"	68c
A3628	1	525	2⅜ x¾"	32c
A3629	2	525	2⅜ x1"	38c
A3630	4	525	2½ x1⅛"	44c
A3627	8	525	3 9/16x1"	56c

IN METAL CANS

DWARF MIDGETS

TYPE KR

These units fill every requirement for a small, high quality inverted type electrolytic condenser. Convenient to use, and available in either 250 V. or 450 V. D.C. working voltage. Dual units have separate sections, no common leads. Metal container is unusually small; equipped with 8" flexible insulated wire leads. Has patented etched foil assembly for long life and high efficiency. Ideal replacements for all sets. Attractively low in price.

525 Volts D.C. Peak

No.	Mfd.	Size	NET
A3670	4	1 x2¾"	$0.50
A3671	8	1 x2¾"	.62
A3672	12	1 x3"	.82
A3673	4-8	1⅜x3¼"	.85
A3674	8-8	1⅜x3¼"	.94
A3675	8-16	1½x4⅜"	1.32
A3676	8-8-8	1½x4⅜"	1.35

300 Volts D.C. Peak

No.	Mfd.	Size	NET
A3680	4	1 x2¾"	$0.44
A3681	8	1 x2¾"	.56
A3682	12	1 x2¾"	.65
A3683	4-8	1 x3"	.76
A3684	8-8	1 x3"	.85
A3685	8-16	1⅜x3½"	1.15
A3686	8-8-8	1⅜x3½"	1.23

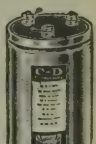
TYPE EB

High grade inverted type dry electrolytic condensers. Internal sections are completely insulated from metal container. Ideal for all replacement purposes and particularly suited for circuits where can is above ground potential. Exceptional stability, minimum leakage current. High in operating efficiency. Single mounting type, 1⅜" diam.; with insulated wire leads. Working voltage, 450 V. D.C.

525 Volts D.C. Peak

No.	Mfd.	Size (Ht.)	NET
A3890	2	2½"	$0.44
A3891	4	2½"	.50
A3892	8	4⅜"	.62
A3893	10	4⅜"	.73
A3894	12	4⅜"	.82
A3895	4-4	4⅜"	.76
A3896	8-8	4⅜"	.94

TYPE EA



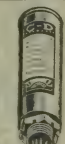
Single and multiple capacity electrolytics in aluminum containers. Mount in any position by means of clamping rings. Have exceptionally low power factor and leakage current. Can is common negative on all types. Especially suited to replacement work in older type radio sets using multiple section filters. Working voltage, 450 V. D.C. Mounting rings supplied.

525 Volts D.C. Peak

No.	Mfd.	Size	NET
A3631	4	1⅜x2½"	$0.50
A3632	6	1⅝x4⅝"	.59
A3633	8	1⅝x4⅝"	.62
A3635	5-15	2½x4⅝"	1.35
A3636	8-8	2½x4⅝"	1.06
A3637	8-8-8	3 x4⅝"	1.59
A3638	8-8-8-8	3 x4⅝"	2.12
A3639	9-9-18	3 x4⅝"	2.20
A3640	8-8-18-18	3 x4⅝"	2.85

WET ELECTROLYTICS

TYPE EY



Ideal for all heavy-duty work where dry units give trouble. Absolutely dependable in operation. Low power factor and leakage current. In round aluminum container with stud and nut mounting. These wet electrolytic units are rated at a maximum peak D.C. voltage of 500. Can be effectively used for replacements in older sets using "brute force" filter circuits.

No.	Mfd.	Size	NET
A3715	4	3¼x1⅝"	50c
A3716	6	4½x1⅝"	56c
A3717	8	4½x1⅝"	59c
A3718	10	4½x1½"	65c
A3719	12	4½x1½"	71c

SPRAGUE "600" LINE CONDENSERS

CARDBOARD CASED ELECTROLYTICS—TYPE DC

Housed in aluminized containers; with handy mounting flanges. Have long push-back leads. Extremely low power factor. 600 Volts peak; 475 Volts D.C. working.

Peak Volts 600—Wkg. Volts 475

Stock No.	Cap. Mfd.	Size L. W. Ht.	NET EACH
A1300	2	2½x ⅞x ⅞	$0.56
A1301	4	4⅛x1½x ⅞	.68
A1302	6	4⅛x1½x ⅞	.76
A1303	8	4⅛x1⅝x1 1/16	.79
A1304	4-4	4⅛x1⅝x1¼	.06
A1305	4-8	4⅛x1⅝x1¼	.18
A1306	8-8	4⅛x1⅝x1⅝	.29
A1307	8-8	(4 Leads)	.29

COMPACT ELECTROLYTICS

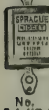
TYPE EC

600 Volts Peak

Ideal replacements where space is limited. Aluminized cardboard containers. Moisture- and heat-proof. Insulated pigtail leads. 600 V. peak; 475 V. D.C. working.

No.	Mfd.	Size	NET
A1308	1	2½x ¾x ¾	$0.50
A1309	2	2½x ⅞x ⅞	.56
A1310	4	2½x1 x1	.68
A1311	8	2½x1¼x1¼	.79

SPRAGUE MIDGETS



TYPE MC

Ideal condensers for all by-pass and coupling use. Non-inductive; extremely compact. Excellent for midget and other compact sets with limited space. **Absolutely sealed against moisture.**

Test Voltage—1000 Volts

No.	Mfd.	No.	Mfd.
A1315	.0001	A1320	.004
A1316	.00025	A1321	.005
A1317	.0004	A1322	.006
A1318	.0005	A1323	.01
A1319	.001		

List, 25c. NET EACH..... **15c**

A1324	.02	List 30c .....EACH	**18c**
A1325	.05	35c .....NET	21c
A1326	.06	35c .....NET	21c
A1327	.1		

A B C D

ALUMINUM CAN ELECTROLYTICS

Exceptionally durable filter condensers. New design eliminates possibility of open contact and short circuit trouble. Housed in heavy aluminum cans; supplied with mounting brackets for easy mounting in any position. Not affected by heat or moisture; very stable in operation. 600 Volts D.C. peak; 475 Volts D.C. working.

UPRIGHT MOUNTING TYPE AC—FIGURE A

No.	Mfd.	Size	List	NET
A1330	2	x3½"	$1.10	$0.65
A1331	8	1⅜x4 7/16"	1.50	.88
A1332	12	1⅜x4 7/16"	2.05	1.21
A1333	16	1⅜x4 7/16"	2.30	1.35

FIGURE B

A1334	8-8	1⅛x4 7/16"	2.40	1.41
A1335	8-8-8	3 x4½"	4.00	2.35
A1336	5-15	2⅛x4⅞"	3.35	1.96
A1337	9-9-18	3 x4⅛"	5.80	3.41
A1338	8-8-8-8	3 x4½"	5.35	3.14
A1339	8-8-18-18	3 x4½"	7.55	4.44
A1340	18-18	2½x4½"	4.90	2.88

INVERTED STUD MOUNTING TYPE SC—FIGURE C

Dry electrolytics in aluminum cans with screw thread mounting. Supplied with insulated washers. Working voltage 475; surge 600 Volts.

No.	Mfd.	Dia. x Ht.	List	NET
A1341	4	1x3½	$1.25	$0.73
A1342	8	1⅜x4 7/16	1.50	.88
A1343	8-8	1½x4 7/16	2.40	1.41
A1344	8-8	(4 Leads)	2.40	1.41

"500" WET ELECTROLYTICS

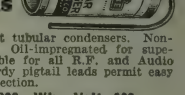
TYPE WC—FIGURE D

High quality, self-heating condensers. Durable construction assures long life. Chromium-plated case will not corrode. Has special hidden vent. 500 volts peak; 400 volts D.C. working.

Peak Voltage—500 Volts

No.	Mfd.	Dia.	NET
A1350	4	1"	$0.47
A1351	8	1"	.56
A1352	10	1⅜"	.62
A1353	12	1⅜"	.68
A1354	16	1⅜"	.79
A1355	18	1⅜"	.88

600 VOLT TUBULAR BY-PASS CONDENSERS

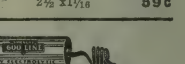


TYPE TC

Neat and compact tubular condensers. Non-inductively wound. Oil-impregnated for superior service. Suitable for all R.F. and Audio circuits. Long, sturdy pigtail leads permit easy mounting and connection.

Test Volts 1200—Wkg. Volts 600

No.	Mfd.	Size	NET
A1360	.0001	13/16x⅜	EACH 15c
A1361	.00025	13/16x⅜	
A1362	.0004	15/16x⅜	
A1363	.0005	15/16x⅜	
A1364	.001	15/16x⅜	
A1365	.002	15/16x⅜	
A1366	.003	1x⅜	
A1367	.004	1x⅜	
A1368	.005	1x⅜	
A1369	.006	1 1/16x7/16	
A1370	.01	1 1/16x7/16	
A1371	.02	1¼x7/16	8c
A1372	.05	1¼ x7/16	18c
A1373	.06	1⅜x7/16	21c
A1374	.1	1⅜ x9/16	21c
A1375	.25	1¾ x¾	27c
A1376	.5	1¾ x⅞	35c
A1377	1.0	2½ x1 1/16	59c



TUBULAR ELECTROLYTICS

Specially designed for compact sets. Exceptionally heat-proof. With ample pig-tail leads of covered push-back wire.

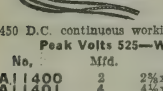
No.	Mfd.	Volts	Size	NET
A1380	2	450	2⅝x1 5/16	$0.38
A1381	4	450	2⅝x1 5/16	.44
A1382	8	450	2⅝x1 1/16	.56
A1383	8-8	450	3⅛x1 9/16	.88
A1384	4	200	2¼x¾	.38
A1385	8	200	2½x⅞	.47
A1386	16	200	2½x1	.62
A1387	25	200	2½x1	.73
A1388	8-8	200	2½x1	.73
A1389	8-16	200	2½x1	.85
A1390	8	100	2½x⅞	.35
A1391	12	100	2½x⅞	.44
A1470	25	100	2½x1	.56
A1392	10	50	2½x1 1/16	.38
A1393	25	50	2½x1 1/16	.47
A1394	5	25	2⅜x⅝	.29
A1395	10	25	2½x1 1/16	.29
A1396	25	25	2½x1 5/16	.38
A1397	10-10	25	2½x1	.44

Rectangular Units

A1398	4-4	150	2⅝ x1½x1 3/16	.50
A1399	5-5	50	2 7/16x1⅛x ⅝/16	.44

SPRAGUE 450 VOLT ELECTROLYTIC CONDENSERS

CARDBOARD CASED DRY ELECTROLYTICS

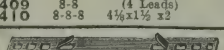


TYPE LD

Exceptionally high quality dry electrolytic condensers. Absolutely moisture-proof; sturdily constructed; compact in size. Conservatively rated at 450 D.C. continuous working volts.

Peak Volts 525—Wkg. Volts 450

No.	Mfd.	Size	NET
A1400	2	2⅝x1 1/16x1 1/16	$0.38
A1401	4	4⅛x1⅜ x ¾	.44
A1402	6	4⅛x1⅜ x1	.53
A1403	8	4⅛x1⅜ x1	.56
A1404	12	4⅛x1⅜ x1¼	.76
A1405	16	4⅛x1⅜x1 1/16x1¼	.85
A1406	4-4	4⅛x1⅜ x1	.71
A1407	4-8	4⅛x1⅜x1 5/16	.79
A1408	8-8	4⅛x1⅜x1 5/16	.88
A1409	8-8	(4 Leads)	.88
A1410	8-8-8	4⅛x1½ x2	1.29

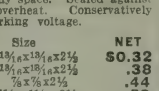


FREE MOUNTING STRAPS

One supplied FREE with purchase of Sprague condensers.

A1348. For mounting single units.
A1349. For mounting two or more units.

SPRAGUE "TINY-MIKES"



TYPE TM

Compact, high quality electrolytic condensers. Ideal for replacement work; will fit almost any space. Sealed against moisture; will not overheat. Conservatively rated at 450 D.C. working voltage.

No.	Mfd.	Size	NET
A1413	1	13/16x13/16x2½	$0.32
A1414	2	1⅜x1⅜x2½	.38
A1415	4	⅞x⅞x2½	.44
A1416	6	1 3/16x1 1/16x2½	.53
A1417	8	1 1/16x1 1/16x2½	.56
A1418	10	1⅛x1⅛x2½	.68
A1419	4-4	(4 Leads)	.71
A1420	8-8	(4 Leads)	.88

PINHEAD TINY-MIKES TYPE PTM

A1467	4	⅞x ⅞x2½	$0.44
A1468	8	⅞x1 1/16x2½	.56
A1469	8-8	1⅛x1⅜x2½	.88

ALUMINUM CAN TYPE DRY ELECTROLYTICS

Durable condensers cased in heavy aluminum containers. Supplied with handy mounting brackets for easy mounting in any position. Hermetically sealed against moisture; not affected by heat. Extremely low power factor assures best results. Excellent for all filter uses. Special slotted holes in elongated mounting clamps to fit any mounting holes.

A B

Peak Volts 525—Wkg. Volts 450
Inverted Units—Type LS—Fig. B

No.	Mfd.	Size	NET
A1438	2	1x2½	$0.44
A1439	4	1x3½	.50
A1440	8	1⅜x4 7/16	.62
A1441	12	1⅜x4 7/16	.82
A1442	16	1⅜x4 7/16	.91
A1443	8-8	1⅜x4 7/16	.94
A1444	8-8	(4 Leads)	.94

Tiny Mikes—Type PLS—Fig. A

A1465	8	1 x2¾	$0.62
A1466	8-8	1½x3	.94

OIL-IMPREGNATED SHORT WAVE CONDENSERS—TYPE SW

Compact non-inductive cartridge type condensers. Ideal for high frequency use. Metal case; oil impregnated. With sturdy leads.

No.	Mfd.	Wkg. Volts	Size	NET
A1422	.002	1500	9/16x1⅝/16	$0.26
A1423	.005	1500	⅝x1 11/16	.26
A1424	.01	1500	11/16x1 11/16	.41
A1425	.05	1000	⅞x2¼	.47
A1426	.1	1000	⅞x2¼	.53

OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDERSOLD

TOBE ELECTROLYTIC AND BY-PASS CONDENSERS TOBE

TOBE SURGPROOF TUBULAR CONDENSERS

Compact non-inductive condensers. Sealed against moisture by double impregnation. Open connections are prevented by metal end pieces which radiate solder iron heat. Conservatively rated. With heavy tinned leads. These are reliable units, priced for savings and profits.

No.	MFD.	SIZE	NET EACH
600 VOLTS			
A8466	.001	7/8x3/8x9/16"	11c
A8467	.002	7/8x3/8x9/16"	
A8468	.004	7/8x3/8x9/16"	
A8469	.005	7/8x3/8x9/16"	
A8470	.006	7/8x3/8x9/16"	
A8471	.008	1 3/16x3/16x9/16"	
A8472	.01	1 3/16x3/16x9/16"	
A8473	.02	1 5/16x3/8x9/16"	12c
A8375	.1	1 3/16x3/8x9/16"	21c
A8376	.25	1 9/16x1"	26c
400 VOLTS			
A8474	.04	1 3/16x3/8x9/16"	13c
A8475	.05	1 3/16x3/8x9/16"	13c
A8476	.06	1 3/16x3/8x9/16"	14c
A8495	.1	1 3/4x3/8x9/16"	15c
A8496	.25	1 13/16x3/4x9/16"	21c
A8497	.5	1 13/16x1"	29c
300 VOLTS			
A8490	.1	1 3/4x3/8x9/16"	13c
A8491	.25	1 3/4x3/8x9/16"	18c
A8492	.5	1 13/16x3/4x9/16"	26c
A8493	1.0	1 13/16x1"	41c

TOBE SURGPROOF REPAIR CONDENSERS

High quality repair condensers built for hard service. Compact; moisture proof. Tested at four times their rated working voltage. With long insulated flexible leads. Ideal for service work. Assure good performance and long life.

400 VOLT CONDENSERS

No.	Mfd.	Size	List	NET
A8478	.1	1 7/8"x3/4"x7/16"	$0.35	21c
A8479	.25	1 7/8"x7/8"x7/16"	.45	26c
A8480	.5	2 1/8"x1 5/16"x1 1/2"	.55	32c
A8481	1.	2 1/8"x1 1/2"x7/8"	.75	44c
A8482	2.	2 7/8"x2"x3/4"	1.15	68c

600 VOLT CONDENSERS

No.	Mfd.	Size	List	NET
A8483	.1	2 7/8"x3/4"x7/16"	$0.45	26c
A8484	.25	2"x1 1/8"x9/16"	.55	32c
A8485	.5	2 1/8"x1 3/8"x3/4"	.65	38c
A8486	1.	2 7/8"x1 13/16"x3/4"	.90	53c
A8487	2.	3 1/2"x2 1/2"x7/8"	1.35	79c

TOBE STANDARD FLEXIDONS

Something new in condenser construction. Compact high-voltage electrolytic condensers featuring patented asphalt casing, tinned mounting eyelets, conservative rating, etc. Each section of multiple units has individual positive and negative leads; may be easily removed and replaced in case of failure, without bothering undamaged sections. Wax plug end seal is provided for each section thus sealing condenser ends against moisture. Flexible, insulated, color-coded leads are firmly fastened to sections; cannot pull out. Operating voltage 475.

525 Volt DC Peak

No.	Mfd.	Size	NET
A8429	1	2 1/8"x1"x1"	$0.32
A8430	2	2 1/8"x1"x1"	.38
A8431	4	3 1/4"x1 5/16"x5/8"	.44
A8433	8	3 1/4"x1 5/16"x7/8"	.56
A8536	4-4	3 1/4"x1 5/16"x1 5/16"	.71
A8437	4-8	3 1/4"x1 3/4"x1 5/16"	.79
A8438	8-8	3 1/4"x1 3/4"x1 5/16"	.88
A8439	4-4-4	3 1/4"x1 5/8"x1 5/16"	1.06
A8440	8-8-8	3 1/4"x2 5/8"x1 5/16"	1.29

REPLACEMENT UNIDONS

Single unit type condensers for replacing sections in the Flexidon cases. Non-corrosive design assures perfect contact and prevents electrolytic action between leads and foils. 475 volts D.C. working potential.

A8370	4 Mfd.	3 1/4"x1 5/16"x5/8"	38c
A8371	8 Mfd.	3 1/4"x1 5/16"x7/8"	50c

COMPACT FLEXIDON ELECTROLYTICS

Ultra-compact condensers of latest design. May be fitted into practically any chassis. Have tinned eyelets for either bolt or soldered mounting. Conservatively rated.

300 V. D.C. Working

No.	Mfd.	Size	NET
A8362	4-4	7/8"x7/8"x2 1/4"	$0.53
A8363	8-8	1"x7/8"x2 3/4"	.71
A8364	8-16	1 1/4"x1"x2 1/8"	.79

475 V. D.C. Working

No.	Mfd.	Size	NET
A8380	4-4	2 1/4"x1"x7/8"	.71
A8381	8-8	2 1/2"x1 1/8"x1"	.88
A8382	4-4-4	2 1/2"x1 1/2"x1"	1.18

COMPACT REPLACEMENT UNIDONS

Extremely small single unit condensers to replace sections in compact Flexidon cases listed above.

200 V. D.C. Working

A8385	4	2"x 5/16"x7/8"	$0.26
A8386	8	2"x7/8"x1 3/16"	.35
A8387	16	2"x1 1/16"x1 5/16"	.56

475 V. D.C. Working

A8388	4	2 1/4"x1 1/2"x7/8"	.38
A8389	8	2 1/4"x1 1/16"x1"	.50

TOBE TUBIDON ELECTROLYTICS

New compact, well-built condensers of latest design, utilizing a new asphalt sealing compound. Triple-sealed construction makes these condensers especially ideal for use in damp or humid localities; excellent for receivers and transmitters for use on boats, at the sea shore, in the tropics, etc. Extremely small size. Buy several. Have the right condenser on hand at the right time.

Stock No.	Mfd.	Wkg. Volts	Size Lgth.	Size Dia.	NET EACH
A8350	4	475	2 1/2	x 7/8	35c
A8351	8	475	2 1/2	x 1	44c
A8397	2	200	2 1/4	x 5/8	26c
A8448	4	200	2 1/4	x 5/8	29c
A8441	8	200	2 1/4	x 7/8	32c
A8354	12	200	2 1/4	x 7/8	38c
A8417	16	200	2 1/4	x 1	44c
A8455	5	50	2 1/4	x 5/8	26c
A8456	10	50	2 1/4	x 5/8	38c
A8457	25	50	2 1/4	x 7/8	41c
A8394	50	50	2 1/4	x 1	56c
A8395	5-5	50	2 1/4	x 5/8	41c
A8396	10-10	50	2 1/4	x 5/8	44c
A8459	5	35	2 1/4	x 5/8	24c
A8460	10	35	2 1/4	x 5/8	24c
A8461	25	35	2 1/4	x 7/8	29c
A8392	50	35	2 1/4	x 1	47c
A8464	5-5	35	2 1/4	x 5/8	38c
A8393	10-10	35	2 1/4	x 5/8	41c

TOBE METAL CAN ELECTROLYTICS

Famous For Sturdy Quality

Excellent for replacement or construction work. Single sections have threaded stud and nut for inverted mounting with tapped hole for 6/32 screw for upright mounting; flexible leads. Multiple sections have screw terminals and clamping rings for mounting. Attractively priced high quality units.

500 Volt DC Peak

No.	Mfd.	Dia.	Hght.	NET
A8418	4	1"	3 1/4"	$0.50
A8420	8	1 3/4"	4 1/2"	.62
A8422	5-15	2 1/2"	3 3/4"	.35
A8423	8-8	2 1/2"	3 3/4"	1.06
A8424	8-8-8	3"	3 3/4"	1.59
A8425	8-8-8-8	3"	3 3/4"	2.12
A8426	9-9-18	3"	3 3/4"	2.20
A8427	9-9-18-18	3 1/4"	3 3/4"	3.09

TOBE MICRANOL TRANSMITTING CONDENSERS

These condensers are positively sealed against moisture and are processed in Micranol. Will withstand peak surges of thousands of volts and will give long faithful service under hard working conditions. Housed in neat metal containers with porcelain insulator supported terminals. Metal ears for easy mounting. Priced very economically. Used by amateurs everywhere because they give continuous dependable service.

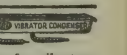
Working Volts 2000 D. C.

Tested at 6000 Volts D.C.

A8412. 1.0 MFD. YOUR PRICE..... **$1.67**

A8413. 2.0 MFD. YOUR PRICE..... **2.45**

AUTO VIBRATOR CONDENSERS



1600 Volt replacement condensers for vibrators.

A8517. For Model 44 Motorola, T35 Elkonode, as illustrated. .01 mfd.

A8518. Tubular .01, 1 3/4"x9/16". For Motorola Models 44, 77A, 66, 160.

A8519. Tubular .02, 1 7/8"x1 11/16".

A8520. Tubular .05, 1 7/8"x1 11/16". YOUR PRICE, EACH..... **29c**

HANDY TOBE CONDENSER SERVICE KITS

FREE METAL CABINETS

Save money and obtain a handy steel cabinet FREE by buying these popular fast-moving Tobe replacement condensers. Kits contain an assortment of the most needed capacities for replacement purposes. Offered in three handy assortments contained in convenient and attractive olive-green high grade steel cabinets, 9 5/8"x4 1/2"x2 9/16". Cabinets may be fastened together as new kits are purchased and added. These cabinets are very handy and may be used for a variety of storage and filing purposes.

FREE One handy metal cabinet is also given FREE with every order of Tobe condensers of your choice amounting to $5.00 net.

KIT NO. 1

Consists of the following Tobe Tubular condensers in a steel cabinet: 600 Volt types: 3—.001, 2—.002; 3—.005; 5—.01; 5—.02; 400 Volt types: 5—.05; 5—.1; 3—.25; 3—.5 mfd.

A8522. WITH FREE CABINET, NET **$4.84**

KIT NO. 2

Consists of the following Dry Electrolytic condensers in a steel cabinet: 500 Volts: 2—8 mfd. in metal containers; 5—8 mfd. and 2—4 mfd. units in cardboard containers.

A8523. WITH FREE CABINET, NET **$4.91**

KIT NO. 3

Consists of the following Tobe Tubidons, in a steel cabinet: 5—8 mfd. 525 volt sections; 5—8 mfd. 200 volt sections; 2—16 mfd. 200 volt sections.

A8524. WITH FREE CABINET, NET **$4.56**

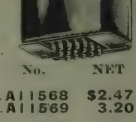
STANCOR EXACT DUPLICATE POWER TRANSFORMERS

STANCOR STANCOR

THESE LOW PRICES MEAN BIGGER PROFITS

Precision-built transformers which conform exactly in every respect to original manufacturers' specifications of physical and electrical characteristics. Current ratings are conservative and assure correct operation. Easily and quickly installed. No refitting or redrilling is necessary. Through close contact with Stancor, we can supply Exact Duplicate Power Transformers for practically any set. Many of these exact duplicate transformers may also be used in old model sets for which no replacements have been available.

Send for your FREE copy of the Stancor Exact Duplicate Power Transformer listings. Refer to it often and it will save you time, money and trouble. You will find it extremely valuable in your service work. Will enable you to quickly and accurately choose the correct transformer for all replacements. Contains a very complete listing of exact duplicate power transformers for hundreds of standard radio sets—duplicates which fit perfectly in every detail. Ask for the Stancor Exact Duplicate Power Transformer Guide with your next order.



Models	No.	NET
ALL-AMERICAN MOHAWK		
D, H	A11500	$4.06
J, P	A11501	2.79
ATWATER KENT		
37, 37C, 38	A11502	3.15
55, 55C (late)	A11503	3.76
60 and 60C (early)	A11504	3.56
60 and 60C (late)	A11505	2.82
66 (Plate)	A11506	3.67
L1, L2, H1, H2, P, 70 series	A11507	3.41
80, 83	A11508	3.41
82, 85	A11509	3.41
84	A11510	3.41
87, 89, 89P	A11511	3.70
BRUNSWICK		
14, 21, 31, 81, 82, S14, S21, S81 S82, S31	A11512	4.03
10	A11513	2.62
11, 11A, 12, 12A, 16, 16A, 18, 18A, 33, 33A	A11514	3.53
KR Series	A11515	3.18
3NCS, 5NCS	A11516	3.20
CLARION		
AC40	A11513	2.62
AC60	A11518	3.65
AC61, 70	A11519	3.47
AC80, 81, 84, 85, 120	A11520	2.50
AC90, 90A, 91	A11521	3.79
AC100	A11522	2.29
AC160	A11523	3.18
AC260	A11524	3.18
AC280	A11525	3.59
AC300	A11526	3.65
AC320	A11527	2.15
AC340	A11528	2.70
AC360	A11529	2.68
AC470, AC472	A11530	2.18
AC480	A11531	3.82
COLUMBIA RADIO		
AC5	A11532	2.59
AC7	A11533	2.73
SG8	A11534	5.14
SG9	A11535	4.50
CROSLEY		
40-S, 41-S, 42-S, 45-S, 82-S	A11536	3.18
41, 41A, 42, 704B, 706, Showbox	A11537	3.18
EDISON		
C4, R4, R5, JR, 8P	A11538	4.53
EVEREADY		
52, 53, 54	A11539	2.88
GENERAL MOTORS		
110, 180, 190	A11540	2.23
211	A11541	2.53
KNIGHT		
AC5	A11532	2.59
SG8	A11534	5.14
SG9	A11535	4.50
Superhet 7	A11542	2.68
Superhet 9	A11543	6.47
KENNEDY		
10, 20	A11544	3.65
KENNEDY (Cont'd)		
26	A11545	$3.79
KOLSTER		
B15, B16	A11546	4.00
K20, K21, K22, K23, K25, K27, K28, K37	A11547	3.59
K24, K36	A11548	4.70
MAJESTIC		
21, 22, 23, (unmounted)	A11550	2.82
51, 52 (unmounted)	A11551	3.20
70 chassis (Plate)	A11552	2.88
70 & 70B chassis (Filament)	A11553	2.73
70B chassis (Plate)	A11554	2.97
90B & 100B chassis	A11555	2.73
90 & 100 chassis	A11556	4.06
130, 131, 132, 233	A11557	4.26
151, 153, 154, 155, 156 (unmounted)	A11558	2.09
180, 181 (Plate)	A11559	4.38
180, 181 (Fil.)	A11560	3.06
210, 211, 214, 215, (unmounted)	A11561	3.23
25 & 25B chassis (unmounted)	A11562	3.29
290, 291, 293, 294	A11563	4.12
320, 324	A11564	4.62
340, 340B, 344	A11565	4.94
360, 363	A11566	4.70
PHILCO		
20, 220	A11567	3.41
PHILCO (Cont'd)		
50, 51, 52, 551	A11568	$2.47
65	A11569	3.20
70, 270, 370, 470, 570	A11570	3.12
76, 77	A11571	3.56
86	A11572	3.12
87	A11573	3.53
90, 490 (1-47)	A11574	3.88
90, 490 (2-47)	A11575	3.97
90 (2-45)	A11576	3.97
91	A11577	4.06
95, 96, 296	A11578	3.82
111, 212, 112 (2-45)	A11579	4.26
111, 212 (2-47)	A11580	3.88
511	A11581	3.35
18	A11582	3.59
RCA-RADIOLA-VICTOR		
AP736, AZ774B, 10-51, 10-69, 10-70, 12-15	A11583	5.53
AP736B, 9-16X	A11584	5.50
R64, R67, 9-18X, 9-54, AP-777C	A11585	10.58
R32, R52, E35, E135, E152, RE45, RE75, RE154, RE156	A11586	4.00
R4, R6	A11587	2.82
R5, R5X	A11588	2.38
R7, R9	A11589	2.85
R7A	A11590	2.97
R8, R10, R12, RE19	A11591	2.94
R11, R21, RAE26, RE18, RE18A	A11592	3.29
R14, R15, R42, R48, RE17	A11593	3.88
R17, R18AC, R33AC, R51AC, R50, 7-11, 7-25, 7-26X	A11515	3.18
R44, R46AC, R47	A11594	3.50
R60, R62	A11516	3.20
R66	A11595	3.82
R80, R82, R86	A11596	3.47
SPARTON		
AC7, 62, 63	A11600	2.47
9A, 410, 420	A11601	3.76
35, 101, 110, 111, 111A, 870	A11602	4.44
89A	A11603	3.18
99, 109	A11604	4.29
103, 301, 301A, 564, 570, 574, 578, 740, 750	A11605	4.79
589	A11606	3.85
591, 593, 931	A11607	3.79
U. S. RADIO & TEL.		
8 (series)	A11610	3.18
9, 19	A11611	3.38
10 (series)	A11612	3.56
36, 37 (Apex)	A11613	4.94
7 (series)	A11614	3.09
20 series (Gloriette)	A11615	2.53
26 series Gloritone	A11616	2.29
26P series Gloritone	A11617	2.29
32	A11618	2.97

STANCOR REPLACEMENT TRANSFORMER COILS

Repair those hard-to-get power transformers with the exact duplicate coils listed below. Save time and money and make the old transformer as good as new.

BOSCH		
48	A11620	$1.76
58, 60	A11621	1.76
CROSLEY		
124	A11622	1.32
130	A11623	1.47
158	A11624	1.03
HOWARD		
Green Diamond (45's)	A11625	1.76
Green Diamond (71A's)	A11626	1.62
MAJESTIC		
210, 211, 214, 215	A11627	1.76
44, 49, 194, 440	A11628	.73
460, 461, 463	A11629	1.18
Treasure Chest	A11630	.94
STEWART-WARNER		
102A, 202A	A11631	1.47

POWER TRANSFORMERS REBUILT LIKE NEW

SERVICE YOU WILL LIKE

We will rebuild for you any defective power transformer, to exact original specifications. Rewinding is expertly done, quickly and economically. We use the original case and laminations. You will find this service invaluable where exact duplicate transformers are no longer obtainable or hard to get. See the table at right for attractive prices. If your type of power transformer is not listed, write for quotation, stating name and model number of receiver, tube line-up, and other available data. We can help you increase your profits and good-will with neat, efficient transformer repair jobs.

WE PAY RETURN POSTAGE

DEALER'S PRICE LIST

SETS UP TO	POWER TUBES	YOUR PRICE
8 Tubes	1—71A	$2.95
8 Tubes	2—71A	3.95
8 Tubes	1—45, or 47	3.95
9 Tubes	2—45, or 47	4.65
10 Tubes	1—50, or 10	5.25
10 Tubes	2—50, or 10	6.00

FOR SETS EQUIPPED WITH CARDON OR KELLOGG TUBES

Up to 9 Tubes. 2—82B Power Tubes...$4.35
Up to 11 Tubes. 2—50 Power Tubes... 7.10

Prices quoted above are for rebuilding transformers not mounted in wax or pitch. Add $1.00 to price if in wax or pitch.
For 25 cycle transformers, add $1.50.

SHIPPING INSTRUCTIONS

For speedy and efficient service, please follow these suggestions.

1. Send in the old transformer by prepaid express or parcel post. Be sure your name and address appear clearly on the package.
2. Send your order in at the same time by first class mail in the usual way, either paid in full or with a 20% deposit. At the same time, you may include your order for other items as desired.
3. Be sure to specify on your order the make and model number of the set, giving the exact tube line-up. Also, be sure to state line volts, and whether 25 or 60 cycle.

We return rebuilt transformers postpaid anywhere in the United States. Take advantage of this additional big savings which will mean more profit for you.

POWER TRANSFORMERS

KNIGHT QUALITY POWER TRANSFORMERS

Splendid values in carefully designed and well-constructed compact power transformers. Only fine quality materials are used throughout. Conservatively rated for long-lived efficient service. Several types insure selection of proper transformer for practically all set requirements.

A TRANSFORMER FOR EVERY PURPOSE AT UNBEATABLE LOW PRICES

Terminal arrangement provides for sub-panel wiring. It is not necessary to bring leads through chassis base. Easily installed as corner bolts furnish positive, solid mounting. Ideal for use in limited space. These transformers are a boon to the serviceman, providing low-cost, high-grade units for replacement purposes. Use them regularly for bigger profits.

2.5 VOLT TRANSFORMERS

Popular transformers for Midget receivers and sets using the 2.5 volt series of tubes. All have 115 Volt, 50-60 Cycle primaries.

4 OR 5 TUBE SETS

For: 2—24, 27, or 3—56, 57; 1—45, 47; 1—80.
Sec.: 650 V. at 40 M.A.-C.T.
2.5 V. at 5.0 Amps.-C.T.
5.0 V. at 2.0 Amps.
Mtg. 2"x2½". Wt., 2 lbs.
A11675. YOUR PRICE..... **71c**

5 TO 7 TUBE SETS

For: 3—24, 27, or 5—56, 57; 1—45, 47; 1—80.
Sec.: 650 V. at 50 MA.-C.T.
2.5 V. at 7.0 Amps.-C.T.
5.0 V. at 2.0 Amps.
Mtg., 2½"x2½". Wt., 2½ lbs.
A11676. YOUR PRICE..... **98c**

7 TO 10 TUBE SETS

For: 4—27, 24, or 7—56, 57, 58; 2—45, 47, 2A5; 1—80.
Sec.: 700 V. at 70 M.A.—C.T.
5 V. at 3 A.
2.5 V. at 3.5 A.—C.T.
2.5 V. at 7.5 A.
Mtg., 2½"x3⅛". Wt., 4 lbs.
A11677. YOUR PRICE..... **$1.65**

6.3 VOLT TRANSFORMERS

A really unusual buy in high-quality midget set transformers for the 6.3 volt series of tubes. All have 115 Volt, 50-60 Cycle primaries.

4 OR 5 TUBE SETS

For: 2 or 3—76, 78, 6D6, 6F7; 1—41, 42, 6F6; 1—80, 5Z4.
Primary: 115 V. at 50/60 cycles.
Sec.: 650 V. at 40 M.A.—C.T.
6.3 V. at 1.6 A.
5 V. at 2 A.
Mtg., 2½"x2⅞". Wt., 3 lbs.
A11678. YOUR PRICE..... **75c**

6 OR 7 TUBE SETS

For: 4 or 5—77, 78, 6D6; 1—41, 42, 6F6; 1—80, 5Z4.
Primary: 115 V. at 50/60 cycles.
Sec.: 700 V. at 50 M.A.—C.T.
6.3 V. at 2 A.—C.T.
5 V. at 2 A.
Mtg., 2½"x2⅞". Wt., 3 lbs.
A11679. YOUR PRICE..... **$1.05**

7 TO 11 TUBE SETS

For: 5 to 8—77, 6D6, 6A7, 6F7; 1 or 2—41, 42, 6F6; 1—80, 5Z4, 5Z3.
Primary: 115 V. at 50/60 cycles.
Sec.: 700 V. at 75 M.A.—C.T.
6.3 V. at 3.2 A.—C.T.
5 V. at 3 A.
Mtg., 3⅛x2½". Wt., 6 lbs.
A11680. YOUR PRICE..... **$1.32**

TUBE TESTER PLATE AND FILAMENT TRANSFORMER

Furnishes conventional filament voltages for tube testers: 1.5, 2.0, 2.5, 3.3, 5.0, 6.3, 7.5, 15, 25 and 30 Volts at 2.0 Amps. Also has high voltage winding to supply 250 Volts A.C. at 40 M.A., for plate voltage of tube under test. Size 2⅝ H. x 4⅛ W. x 2¼" D., with 3 9/16" mounting centers.
A11704. List, $3.50. NET..... **$2.06**

FOR AUTO RADIOS

A newly developed compact transformer, designed to deliver 250 volts at 50 M.A. in conjunction with any standard vibrator. Upright: 3⅛" high; mtg. centers, 2"x1¾".
A7103. YOUR PRICE..... **$1.45**

EXACT DUPLICATE PHILCO POWER TRANSFORMERS

FINE VALUES

A newly developed line of high-quality exact duplicate Philco Replacement power transformers. These units are exactly identical to the originals in every electrical and physical characteristic. They were produced only after thorough examination of burned-out and otherwise defective original transformers. The use of these units results in permanent efficient installations.

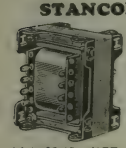
NO.	Models	NET
A11684	18	$2.70
A11685	20, 220	2.70
A11686	50, 51, 52, 551	2.35
A11687	65	2.50
A11688	70, 270, 370, 470, 570	2.45
A11689	76, 77	2.70
A11690	86	2.60
A11691	87	2.35
A11692	90 (1—47)	2.75
A11693	90 (2—47)	2.95
A11694	90 (2—45)	2.60
A11695	91	2.60
A11696	95, 96, 296	2.85
A11697	111, 112, 212, (45's)	3.10
A11698	112, 212, (47's)	3.10
A11699	511	2.25
A11700	16, 17 (Code 122)	3.10
A11701	14, 91 (Code 221-3)	2.70
A11702	16, 17 (Code 121)	2.70
A11703	21	2.85

Additional Exact Duplicate transformers for all sets are listed on Page 58.

KNIGHT FIELD EXCITER POWER TRANSFORMER

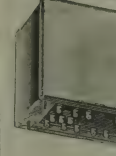
This power transformer is designed to deliver 160 volts at 200 M.A. out of filter, with an 83 or 5Z3 rectifier tube. Will furnish full excitation for either one or two 1000 ohm speaker fields in parallel connection. Primary: 115 volts 50/60 cycles. Sec. 200 volts at 225 M.A.—C.T. and 5 volts at 4 A. Size, only 2⅞x3⅛x3¾ inches.
A6066. YOUR PRICE..... **$1.75**

STANCOR P931 POWER TRANSFORMER



For 7-27, 24, or 12-56, 57, 58; 2—45, 47, 2A5; 1—80, 83, 5Z3. Pri.-110 Volts, 60 cycles. Delivers 700 V. at 110 M.A.-C.T.; 5 V. at 3 A.-C.T.; 2.5 V. at 3.5 A.-C.T.; 2.5 V. at 12¼ A.-C.T. Universal mtg. Shpg. wt., 8 lbs.
A11705. **$3.03**
List, $5.15. NET.....

KNIGHT—COLUMBIA TRANSFORMER POWER PACKS



Exact duplicates of original power pack in every detail of size, mounting and voltages supplied. By using these exact replacement units, you are assured of proper performance.

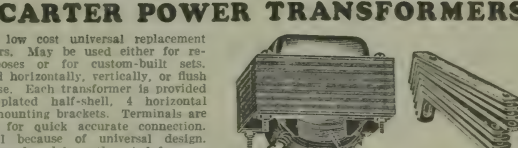
SCREEN GRID 8

Supplies all of the proper voltage for the popular Screen-Grid 8, which uses 3—24, 2—27, 2—45 and 1—80 tubes. Sturdily built; easy to install. Complete power pack.
A11681. **$5.14**
NET.....

SCREEN GRID 9

A11682. Complete power pack for S.G. 9.
NET.....$4.50
A11683. Power Transformer for A. C. 5.
NET.....$2.59

UTAH-CARTER POWER TRANSFORMERS



First quality low cost universal replacement type transformers. May be used either for replacement purposes or for custom-built sets. May be mounted horizontally, vertically, or flush with chassis base. Each transformer is provided with cadmium-plated half-shell, 4 horizontal and 4 vertical mounting brackets. Terminals are clearly marked for quick accurate connection. Easy to install because of universal design. Carefully engineered and honestly rated for constant operation and maximum life. Units listed below are the most popularly demanded.

FOR 5 TO 7 TUBE SETS

For: 3—24, 27 or 5—56, 57; 1—45, 47, 2A5; 1—80.
Mtg.: 2 13/16"x2¼". Shpg. wt., 4 lbs.
Primary: 115 V., 50/60 cycles.
Sec.: 650 V. at 45 MA.-C.T.
2.5 V. at 5.25 Amps.-C.T.
2.5 V. at 1.75 Amps.-C.T.
5.0 V. at 3.0 Amps.
A3255. List, $2.90. **$1.71**
YOUR PRICE .....

FOR 7 TO 10 TUBE SETS

For: 4—24, 27 or 7—56, 57; 2—45, 47, 2A5; 1—80, 83.
Mtg.: 3⅛"x2½". Shpg. wt., 5 lbs.
Primary: 115 V., 50/60 cycles.
Sec.: 700 V. at 65 MA.-C.T.
2.5 V. at 7.0 Amps.-C.T.
2.5 V. at 3.5 Amps.-C.T.
5.0 V. at 3.0 Amps.
A3256. List, $3.30. **$1.94**
YOUR PRICE .....

FOR 9 TUBE SETS

For: 5—26; 1—27; 2—71A; 1—80.
Mtg.: 3¼"x2½". Shpg. wt., 5 lbs.
Primary: 115 V., 50/60 cycles.
Sec.: 500 V. at 60 MA.-C.T.
1.5 V. at 5.25 Amps.
2.5 V. at 1.75 Amps.
5.0 V. at 0.5 Amps.
5.0 V. at 3.0 Amps.
A3257. List, $3.50. **$2.06**
YOUR PRICE .....

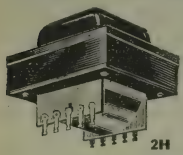
FOR 9 TO 13 TUBE SETS

For: 6—24, 27 or 10—56, 57; 2—45, 47, 2A5; 1—80, 83.
Mtg.: 3⅛"x2½". Shpg. wt., 5 lbs.
Primary: 115 V., 50/60 cycles.
Sec.: 700 V. at 75 MA.-C.T.
2.5 V. at 10.5 Amps.-C.T.
2.5 V. at 3.5 Amps.-C.T.
5.0 V. at 3.0 Amps.
A3258. List, $3.85. **$2.26**
YOUR PRICE .....

THORDARSON UNIVERSAL POWER TRANSFORMERS

FOR UNIVERSAL REPLACEMENTS

A complete line of power transformers for every replacement purpose. The carefully selected group of Thordarson units listed on this page will provide the correct transformer for practically every repair job or original installation. Electrically and mechanically sturdy in construction, every detail of manufacture has been handled with painstaking care. All ratings are exact, and correct choice of windings will assure original performance. All Thordarson Power Transformers listed below operate from 110-115 Volts, 50-60 Cycles.



2H

FREE THORDARSON REPLACEMENT GUIDE

Write for the FREE Thordarson Replacement Power Transformer Guide. It will save you time and money for it shows, at a glance, the proper replacement transformer units for hundreds of radio sets.

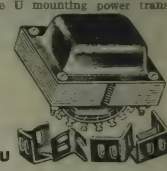
LATEST THORDARSON TYPES

The transformers shown on this page are the latest Thordarson types. Every practical engineering development has been incorporated to provide maximum efficiency of operation. Available in Half-shell, Fully-shielded, and Universal-mounting type. The 6.3 volt types are for use with either the glass or metal tubes. Mounting features are universally adaptable for easy installation. Note particularly the new universal type U mounting power transformers which can be adapted to practically all types of receivers.

2G

SPECIAL TRANSFORMERS ARE AVAILABLE

We can supply all Thordarson Universal Transformers with 110-115 volt, 25 cycle primaries at 60% net additional, and with 220 volt, 60 cycle primaries at 30% net additional. Please send deposit with order.



2U

2H - HALF-SHELL

Transf.	DIMENSIONS H.	W.	D.	MTG. HOLES
T6049	2⅜"	3"	2½"	2¾"
T5002	3"	3½"	3"	2"
T4900	3⅜"	3⅜"	3¼"	3⅛x2½"
T7020	3"	3½"	3"	2¾"
T5003	3⅞"	3⅞"	3¼"	3⅛x2½"
T7021	3⅜"	3⅜"	3¼"	3⅛x2½"

4 TUBES—2.5 VOLTS

Type T6049. For 2—57, 58; 1—2A5; 1—80.
SEC.: 560 V., C.T. at 30 M.A.
2.5 V. at 3.5 A.-C.T.
5.0 V. at 2.0 A. Shpg. wt., 3 lbs.
A11010. List, $2.00. NET..... **$1.18**

4 TO 5 TUBES—2.5 VOLTS

Type T5002. For 2—24, 27, or 3—56, 57; 1—47, 2A5; 1—80.
SEC.: 620 V., C.T. at 40 M.A.
2.5 V. at 5.0 A.-C.T.
5.0 V. at 2.0 A. Shpg. wt., 4 lbs.
A11011. List, $2.75. NET..... **$1.62**

5 TO 9 TUBES—2.5 VOLTS

Type T4900. For 1—24, 27, or 7—56, 57; 1—47, 2A5; 1—80.
SEC: 700 V., C.T. at 70 M.A.
2.5 V. at 8.5 A.-C.T.
5.0 V. at 2.0 A. Shpg. wt., 5 lbs.
A11012. List, $3.25. NET..... **$1.90**

4 OR 5 TUBES—6.3 VOLTS

Type T7020. For 2 or 3—77, 78, 6K7, 6F5; 1—42, 6F6; 1—80, 5Z3, 5Z4.
SEC: 600 V., C.T. at 50 M.A.
6.3 V. at 2.0 A.-C.T.
5.0 V. at 2.0 A. Shpg. wt., 4 lbs.
A11013. List, $2.75. NET..... **$1.62**

8 TO 12 TUBES—2.5 VOLTS

Type T5003. For 5—27, 24, or 9—56, 57; 2—47, 2A5; 1—80, 5Z3.
SEC: 700 V., C.T. at 80 M.A.
2.5 V. at 12.0 A.-C.T.
5.0 V. at 2.0 A. Shpg. wt., 6 lbs.
A11014. List, $3.75. NET..... **$2.20**

6 TO 9 TUBES—6.3 and 2.5 VOLTS

Type T7021. For 5 or 6—76, 77, 78, 6C5, 6K7, 6F5; 2—47, 2A5, 45; 1—80, 5Z3, 5Z4.
SEC: 700 V., C.T. at 70 M.A.
6.3 V. at 3.0 A.-C.T.
2.5 V. at 4.0 A.-C.T.
5.0 V. at 2.0 A. Shpg. wt., 5 lbs.
A11015. List, $3.50. NET..... **$2.06**

2G - FULLY SHIELDED

Transf.	DIMENSIONS H.	W.	D.	MTG. HOLES
T7078	4⅝"	3¾"	3¼"	2⅝x2½"
T7061	4⅝"	3¾"	3¼"	2⅝x2½"
T5602	4⅝"	3¾"	3¾"	2⅝x3"
T5601	4⅝"	3¾"	3¾"	2⅝x3"
T5604	5"	3¾"	3¾"	3x3¼"
T7062	5"	3¾"	3¾"	3⅛x3⅛"
T5605	5"	3¾"	3¾"	3x3½"

4 OR 5 TUBES—6.3 VOLTS

Type T7078. For 2 or 3—76, 77, 78, 6C5, 6K7, 6F5; 1—42, 6F6; 1—80, 5Z4.
SEC.: 680 V., C.T. at 55 M.A.
6.3 V. at 1.5 A.-C.T.
5.0 V. at 2.0 A. Shpg. wt. 6 lbs.
A11016. List, $3.00. NET..... **$1.76**

6 TO 8 TUBES—6.3 VOLTS

Type T7061. For 5 or 6—76, 77, 78, 6C5, 6K7, 6F5; 1—42, 6F6; 1—80, 5Z4.
SEC. 700 V., C.T. at 70 M.A.
6.3 V. at 2.5 A.-C.T.
5.0 V. at 2.0 A. Shpg. wt., 6½ lbs.
A11017. List, $4.00. NET..... **$2.35**

7 TO 11 TUBES—2.5 VOLTS

Type T5602. For 5—27, 24, or 9—56, 57; 1—47, 2A5; 1—80.
SEC.: 700 V., C.T. at 70 M.A.
2.5 V. at 9.0 A.-C.T.
2.5 V. at 1.5 A.-C.T.
5.0 V. at 2.0 A. Shpg. wt. 7 lbs
A11018. List, $4.25. NET..... **$2.50**

10 TUBES—1.5 VOLTS

Type T5601. For 5—26; 2—27; 2—71A; 1—80.
SEC.: 650 V., C.T at 70 M.A.
1.5 V. at 1.0 A.
1.5 V. at 4.0 A.
2.5 V. at 3.0 A.-C.T.
5.0 V. at 0.5 A.-C.T.
5.0 V. at 2.0 A.-C.T. Wt., 7 lbs.
A11019. List, $4.50. NET..... **$2.65**

8 TO 12 TUBES—2.5 VOLTS

Type T5604. For 5—24, 27, or 9—56, 57; 2—47, 2A5; 1—80.
SEC.: 700 V., C.T. at 105 M.A.
2.5 V. at 12.0 A.-C.T.
5.0 V. at 2.0 A. Shpg. wt. 8 lbs.
A11020. List, $5.25. NET..... **$3.09**

11 TO 13 TUBES—6.3 VOLTS

Type T7062. For 8 to 10—76, 6C6, 6D6, 6C5, 6K7, 6F7; 2—42, 6F6; 1—80, 5Z3, 5Z4.
SEC.: 745 V., C.T. at 145 M.A.
6.3 V. at 4.5 A.-C.T.
5.0 V. at 3.0 A. Shpg. wt., 8 lbs.
A11021. List, $5.50. NET..... **$3.23**

10 TO 15 TUBES—2.5 VOLTS

Type T5605. For 7—24, 27, or 12—56, 57; 2—47, 2A5; 1—80.
SEC.: 700 V., C.T. at 110 M.A.
2.5 V. at 9.0 A.-C.T.
2.5 V. at 3.0 A.-C.T.
2.5 V. at 3.0 A.-C.T.
5.0 V. at 3.0 A.-C.T. Wt., 9 lbs.
A11022. List, $5.75. NET..... **$3.38**

2U - UNIVERSAL MOUNTING

Supplied with special universal mounting brackets shown above for mounting in any desired position.

Transf.	DIMENSIONS H.	W.	D.	MTG. HOLES
T7537	2½"	2½"	3"	2x2½"
T7538	2½"	2½"	3"	2x2½"
T7540	3"	2½"	3⅜"	2⅛x2⅛"
T7543	3½"	3⅛"	3⅜"	2½x3⅛"
T7541	3½"	3⅛"	3⅛"	2½x3⅛"
T7542	3½"	3⅛"	3⅜"	2½x3⅛"

4 OR 5 TUBES—2.5 VOLTS

Type T7537. For 2—24, 27 or 3—56, 57; 1—47, 2A5; 1—80, 5Z3.
SEC.: 650 V., C.T. at 40 M.A.
2.5 V. at 5.25 A.-C.T.
5.0 V. at 3.0 A. Shpg. wt., 3½ lbs.
A11023. List, $2.35. NET..... **$1.38**

4 OR 5 TUBES—6.3 VOLTS

Type T7538. For 2 or 3—77, 78, 6K7, 6F5; 1—42, 6F6; 1—80, 5Z3, 5Z4.
SEC.: 650 V., C.T. at 40 M.A.
6.3 V. at 2.0 A.-C.T.
5.0 V. at 3.0 A. Shpg. wt., 3½ lbs.
A11024. List, $2.35. NET..... **$1.38**

5 TO 7 TUBES—2.5 VOLTS

Type T7540. For 3—24, 27 or 5—56, 57; 1—47, 2A5; 1—80, 5Z3.
SEC.: 700 V., C.T. at 50 M.A.
2.5 V. at 5.25 A.-C.T.
2.5 V. at 1.75 A.-C.T.
5.0 V. at 3.0 A. Shpg. wt., 4 lbs.
A11025. List, $3.00. NET..... **$1.76**

6 TO 8 TUBES—6.3 VOLTS

Type T7543. For 5 or 6—76, 77, 78, 6C5, 6K7, 6F5; 1—42, 6F6; 1—80, 5Z3, 5Z4.
SEC.: 700 V., C.T. at 70 M.A.
6.3 V. at 2.5 A.-C.T.
5.0 V. at 3.0 A. Shpg. wt., 5 lbs.
A11026. List, $3.25. NET..... **$1.90**

5 TO 9 TUBES—2.5 VOLTS

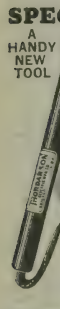
Type T7541. For 1—24, 27 or 7—56, 57; 1—47, 2A5; 1—80, 5Z3.
SEC.: 700 V., C.T. at 70 M.A.
2.5 V. at 9.0 A.-C.T.
5.0 V. at 3.0 A. Shpg. wt., 5 lbs.
A11027. List, $3.35. NET..... **$1.97**

7 TO 10 TUBES—2.5 VOLTS

Type T7542. For 4—27, 24, or 7—56, 57; 2—47, 2A5; 1—80, 5Z3.
SEC.: 700 V., C.T. at 70 M.A.
2.5 V. at 7.0 A.-C.T.
2.5 V. at 3.5 A.-C.T.
5.0 V. at 3.0 A. Shpg. wt., 5 lbs.
A11028. List, $3.60. NET..... **$2.12**

SPECIAL FREE OFFER

A HANDY NEW TOOL

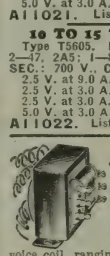


THORDARSON PROBING LIGHT

An invaluable new trouble light for probing into dark corners can be yours FREE. Gives you plenty of light where you need it. In handy fountain pen size. Operates on any 110 Volt line, A.C. or D.C. No batteries required. Ideal for use in the shop or on service calls. Cannot ground or short-circuit. Consists of a 6 volt pilot lamp and socket in a 5 inch fibre tube with 6 ft. cord and rubber plug. An extremely useful and practical tool.

A11003. Given FREE with order for Thordarson units totaling $5.00 net or more, or sold separately (List, $1.50) at net... 88c

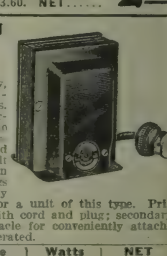
T5701 UNIVERSAL OUTPUT



Designed to operate any dynamic speaker with any combination of standard power tubes, single or push-pull. Has 14 secondary impedances for accurately matching to any voice coil, ranging from 1/10 to 29 ohms. Primary impedance may be varied from 4,000 to 14,000 ohms. With instructions. Wt., 2 lbs.

A11006. List, $2.00. NET..... $1.18

THORDARSON VOLTAGE CHANGER



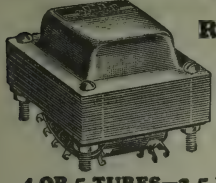
High efficiency, trouble-free step-down transformers. May be used to operate 110-125 volt radio sets, amplifiers, electrical appliances and toys from 220-250 volt lines. Available in four capacity ratings to serve practically every requirement for a unit of this type. Primary is equipped with cord and plug; secondary has standard receptacle for conveniently attaching device to be operated.

No.	Type	Watts	NET
A11270	T2604	80	$2.65
A11271	T5010	125	3.23
A11272	T4015	175	3.82
A11273	T5011	250	4.41

STANCOR TRANSFORMERS

STANCOR

STANCOR HALF-SHELL REPLACEMENT TRANSFORMERS



A new group of high-grade compact power transformers, designed to meet all requirements for superior flush-mounting replacements. Ideal for replacement purposes in midget and mantle type receivers; also useful in amplifier and receiver construction. Made of the best quality materials; superior design and neat, workmanlike appearance make them unusual values. Uniformly wound coils and generous insulation assure long, trouble-free performance. Ample safety factor allows momentary high peak-current drains without seriously taxing transformer. Available in eight popular sizes, for use with 2.5 or 6.3 volt tubes. For 110 Volt 60 cycle A.C. operation.

4 OR 5 TUBES—2.5 VOLTS

Type P2770. For 2 or 3—57, 58, 56; 1—47, 2A5; 1—80.
Sec.: 650 V. at 40 M.A.-C.T.
5 V. at 2 A.; 2.5 V. at 4.5 A.-C.T.
Mtg. area 2½"x3".
A1235. List, $2.25. NET **$1.32**

5 TO 7 TUBES—2.5 VOLTS

Type P2869. For 3—24, 27 or 5—56, 57, 58; 1—47, 2A5; 1—80, 5Z3.
Sec.: 700 V. at 50 M.A.-C.T.
5 V. at 2 A.; 2.5 V. at 1.75 A.-C.T.
2.5 V. at 5.25 A.
Mtg. area 2⅛"x3¾".
A1236. List, $3.15. NET... **$1.85**

7 TO 10 TUBES—2.5 VOLTS

Type P2859. For 4—24, 35, 27 or 7—56, 57, 58; 2—45, 47, 2A5; 1—80, 5Z3.
Sec.: 700 V. at 70 M.A.-C.T.
5 V. at 3 A.; 2.5 V. at 3.5 A.-C.T.
2.5 V. at 7.5 A.
Mtg. area 3½"x3¾".
A1237. List, $3.45. NET... **$2.03**

8 TO 12 TUBES—2.5 VOLTS

Type P2860. For 5—24, 27, 35 or 9—56, 57, 58; 2—45, 47, 2A5; 1—80, 5Z3.
Sec.: 700 V. at 90 M.A.-C.T.
5 V. at 3 A.; 2.5 V. at 3.5 A.-C.T.
2.5 V. at 9 A.
Mtg. area 3⅞"x4½".
A1238. List, $4.00. NET... **$2.35**

4 TUBES—6.3 VOLTS

Type P2751. For 2—37, 76, 77, 78, 6C6, 6D6, 6J7, 6K7; 1—41, 42, 6F6; 1—80, 5Z4.
Sec.: 650 V. at 40 M.A.-C.T.
5 V. at 2 A.; 6.3 V. at 1.6 A.-C.T.
Mtg. area 2½"x3".
A1239. List, $1.95. NET **$1.15**

4 OR 5 TUBES—6.3 VOLTS

Type P2771. For 2 or 3—77, 78, 6C6, 6D6, 6J7, 6K7; 1—41, 42, 6F6; 1—80, 5Z4.
Sec.: 650 V. at 40 M.A.-C.T.
5 V. at 2 A.; 6.3 at 2 A.-C.T.
Mtg. area 2½"x3".
A1241. List, $2.25. NET... **$1.32**

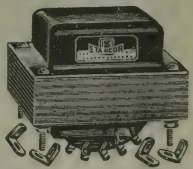
5 OR 6 TUBES—6.3 VOLTS

Type P948. For 3 or 4—77, 6C6, 6D6, 6A8, 6J7, 6K7, 6C5; 1—41, 42, 6F6; 1—80, 5Z3, 5Z4.
Sec.: 675 V. at 70 M.A.-C.T.
5 V. at 3 A.;
6.3 V. at 2.5 A.-C.T.
Mtg. area 3⅜"x3¾".
A1242. List, $3.60. NET... **$2.12**

7 TO 10 TUBES—6.3 VOLTS

Type P949. For 4 to 7—6C6, 6D6, 6J7, 6K7, 6C5; 2—41, 42, 6F6; 1—80, 5Z3, 5Z4.
Sec.: 700 V. at 120 M.A.-C.T.
5 V. at 3 A.; 6.3 V. at 3 A.-C.T.
Mtg. area 3⅞"x4½".
A1243. List, $3.90. NET **$2.29**

NEW UNIVERSAL HALF-SHELL POWER TRANSFORMERS



A newly developed line of half-shell power transformers. Adaptable for use in sets employing either 2.5 volt or 6.3 volt tubes. The ideal transformer line for the serviceman; permits servicing the greatest number of sets with a minimum stock of transformers. Universal mounting brackets included with each transformer provide for any type of mounting; flush with chassis, horizontal, vertical, or any position desired. All transformers have accurate voltage ratings; secondary windings conservatively rated. For 110-120 volt, 50-60 cycle A.C. use.

COMBINATION FILAMENT FOR 6.3 OR 2.5 VOLT TUBES

4 OR 5 TUBES

Type P4070. Sec.: 650 V. at 40 M.A.-C.T.
5 V. at 2 Amps.
2.5 V. at 5.25 Amps. C.T.
or 6.3 V. at 2 Amps.
Mtg. area 2½"x3".
A1280. List, $3.45. NET.... **$2.03**

5 OR 6 TUBES

Type P4071. Sec.: 700 V. at 50 M.A.-C.T.
5 V. at 2 Amps.
2.5 V. at 7.25 Amps. C.T.
or 6.3 V. at 2.5 Amps.
Mtg. area 2⅝"x3¾".
A1281. List, $3.70. NET.... **$2.18**

6 OR 7 TUBES

Type P4072. Sec.: 700 V. at 70 M.A.-C.T.
5 V. at 3 Amps.
2.5 V. at 9 Amps. C.T.
or 6.3 V. at 3 Amps.
Mtg. area 3⅜"x3¾".
A1282. List, $4.30. NET.... **$2.53**

8 OR 9 TUBES

Type P4073. Sec.: 700 V. at 90 M.A.-C.T.
5 V. at 3 Amps.
2.5 V. at 10 Amps. C.T.
or 6.3 V. at 3.5 Amps.
Mtg. area 3⅞"x4½".
A1283. List, $5.30. NET.... **$3.12**

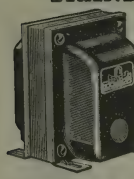
10 TO 12 TUBES

Type P4074. Sec.: 700 V. at 110 M.A.-C.T.
5 V. at 3 Amps.
2.5 V. at 14 Amps. C.T.
or 6.3 V. at 4.5 Amps.
Mtg. area 3¾"x4½".
A1284. List, $5.70. NET.... **$3.35**

11 TO 14 TUBES

Type P4075. Sec.: 800 V. at 160 M.A.-C.T.
5 V. at 3 Amps.
2.5 V. at 14 Amps. C.T.
or 6.3 V. at 4.5 Amps.
Mtg. area 3¾"x4½".
A1285. List, $6.50. NET.... **$3.82**

FULLY SHIELDED POWER TRANSFORMERS



A new fully shielded line of replacement power transformers designed for use in servicing all popular sets employing 2.5 volt tubes. Easy to install. All leads come through the bottom of the shell to accommodate connection of leads below chassis. Each shell, however, is made with a knockout to provide for connection of any or all leads above chassis if desired. For 110-120 volts, 50-60 cycles.

5 TO 7 TUBES—2.5 VOLTS

Type P4041. For 3—24, 27 or 5—56, 57, 58; 1—47, 2A5; 1—80, 5Z3.
Sec.: 700 V. at 50 M.A.-C.T.
5 V. at 2 A.; 2.5 V. at 1.75 A.-C.T.
2.5 V. at 5.25 A.
Mtg. area 3"x3".
A1288. List, $3.70. NET.... **$2.18**

7 TO 10 TUBES—2.5 VOLTS

Type P4042. For 4—24, 35, 27 or 7—56, 57, 58; 2—45, 47, 2A5; 1—80, 5Z3.
Sec.: 700 V. at 70 M.A.-C.T.
5 V. at 3 A.; 2.5 V. at 3.5 A.-C.T.
2.5 V. at 7.5 A.
Mtg. area 3⅜"x3⅜".
A1289. List, $4.05. NET.... **$2.38**

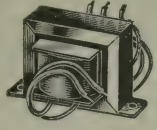
8 TO 12 TUBES—2.5 VOLTS

Type P4043. For 5—24, 27, 35 or 9—56, 57, 58; 2—45, 47, 2A5; 1—80, 5Z3.
Sec.: 700 V. at 90 M.A.-C.T.
5 V. at 3 A.; 2.5 V. at 3.5 A.-C.T.
2.5 V. at 9 A.
Mtg. area 3⅜"x3⅜".
A1290. List, $4.60. NET.... **$2.70**

11 TO 17 TUBES—2.5 VOLTS

Type P4044. For 8—24, 27, 35 or 14—56, 57, 58; 2—45, 47, 2A5; 1—80, 5Z3.
Sec.: 700 V. at 110 M.A.-C.T.
5 V. at 3 A.; 2.5 V. at 3.5 A.-C.T.
2.5 V. at 14 A.
Mtg. area 3⅞"x3⅜".
A1291. List, $6.10. NET ... **$3.59**

STANCOR TUBE CHECKER TRANSFORMER



For replacement in standard tube testers or for use in modernizing older units. Size, 2⅝"x2⅞"x4¼". Primary tapped for 105, 115, 125 volts, 60 cycles. Secondary is tapped at 1.1, 1.5, 2.0, 2.5, 3.0, 3.3, 5.0, 6.3, 7.5, 12, 25 and 30 volts. Supplies the correct filament voltage for all types of tubes. Strap mounting type with long flexible leads. Wt., 3 lbs.

A1256. List, $3.20. YOUR PRICE **$1.88**

ACME STEP-DOWN TRANSFORMER

Will reduce line voltages of 220-240 volts, 50/60 cycle to 110-120 volts for operation of radio sets, amplifiers and appliances. Will safely handle devices consuming up to 200 watts. Supplied with 8 foot cord, plug, and receptacle. Wt., 8 lbs.

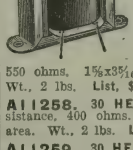
A1265. List, $10.00. YOUR PRICE **$3.95**

ACME VARIABLE VOLTAGE ADJUSTER

A unique, efficient device for maintaining proper operating voltages where line fluctuation is a source of annoyance. Adjustment allows step-up or step-down action. Primary voltage range, 85 - 100 - 115 - 130 - 145 volts; secondary output, 115 volts, 50-60 cycles. 3⅞"x4⅛"x3⅜"; with voltmeter and 8 ft. cord and plug. For 60 cycle A.C. lines.

A1266. YOUR PRICE **$7.06**

GENERAL PURPOSE CHOKES



A reliable listing of high quality choke units which may be used for either filter or plate coupling use. Accurately rated and generously insulated. Strap mounting type.

A1257. 30 HENRY at 50 MA. D.C. resistance, 550 ohms. 1⅝x3⅝" mtg. area. Wt., 2 lbs. List, $1.25. NET..... **73c**

A1258. 30 HENRY at 75 MA. D.C. resistance, 400 ohms. 1⅞x3 11/16" mtg. area. Wt., 2 lbs. List, $1.55. NET.. **91c**

A1259. 30 HENRY at 110 MA. D.C. resistance, 200 ohms. 2x4 1/16" mtg. area. Wt., 3 lbs. List, $1.85. YOUR PRICE **$1.09**

A1260. 50 HENRY at 15 MA. D.C. resistance, 750 ohms. 1½x2 13/16". Wt., 1½ lbs. List, $1.00. NET..... **59c**

THORDARSON AMPLIFIER & LINE COUPLING TRANSFORMERS

LATEST COUPLING TRANSFORMERS

FOR EVERY PURPOSE

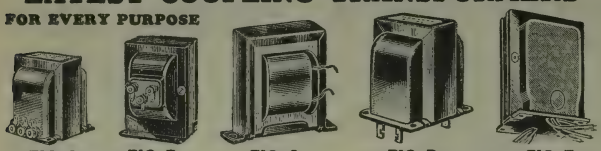


FIG. A FIG. B FIG. C FIG. D FIG. E

The latest Thordarson high quality transformers, designed for practically every input, output, mixer or line purpose. A transformer for almost any need will be found in the listing below. All units have been carefully designed, and are **precision-built.**

TUBE TO LINE (LOW LEVEL)

Cat. No.	Type	Fig.	Primary	Secondary	List	NET
A11041	T5515	D	56, 37, 27, 864, 30, etc.	200 or 50 Ohms	$2.75	$1.62
A11042	T6226	D	56, 37, 27, 864, 30, etc.	500 or 125 Ohms	2.75	1.62
A11043	T7211	D	P. P. 56, 37, 27, 864, etc.	500 or 125 Ohms	3.00	1.76
A11044	T7573	D	P. P. 56, 37, 27, 864, etc.	200 or 50 Ohms	3.00	1.76

MIXER OR LINE TO TUBE

A11045	T5516	D	200 or 50 Ohms	Single or PP Grids	$2.75	$1.62
A11046	T6372	D	50, 100, 150 or 200 Ohms	Single Grid	4.00	2.35
A11047	T6371	D	200, 400, 600 or 800 Ohms	Single Grid	4.00	2.35
A11048	T6194	D	500 or 125 Ohms	Single or PP Grids	3.75	2.20

MIXER OR LINE TO LINE

A11050	T6196	D	500 or 125 Ohms	200 or 50 Ohms	$4.00	$2.35
A11051	T6374	D	H. I. Phono Pickup	200 or 50 Ohms	3.00	1.76

MICROPHONE COUPLING TRANSFORMERS

A11052	T6373	D	D.B. Mike 200-0-200 Ohms	200 or 50 Ohms	$3.75	$2.20
A11053	T6197	D	Ribbon or Velocity Mike	200 or 50 Ohms	3.00	1.76
A11054	T7083	D	Crystal Mike	200 or 50 Ohms	4.00	2.35
A11055	T6573	D	D.B. Mike 200-0-200 Ohms	Single Grid	3.25	1.90
A11056	T5837	D	D.B. Mike 200-0-200 Ohms	Single Grid	2.25	1.32
A11057	T3020	A	D.B. Mike 200-0-200 Ohms	Single Grid	3.50	2.05
A11058	T2357	A	Single Button Microphone 200 Ohms	Single Grid	2.25	1.32
A11059	T6123	D	Ribbon or Velocity Mike	Single Grid	3.00	1.76

OUTPUT COUPLING TRANSFORMERS

A11060	T6125	C	Universal, 2A3, 2A5, 45, 47, 50, etc.	500 Ohms	$3.50	$2.05
A11061	T6126	C	Universal, PP2A3, 2A5, 45, 47, 50, etc.	500 Ohms	3.50	2.05
A11062	T5701	C	Universal, Single or PP output tubes	.1 to 29 Ohms	2.00	1.18
A11063	T6754	D	PP2A3 or 45 Class "AB"	4, 8, 15 or 500 Ohms	4.00	2.35
A11064	T6748	D	PP45 Class "A" or 1-53 Class "B"	4, 8, 15 or 500 Ohms	3.50	2.05
A11065	T6752	D	2-53 PP parallel Class "B", or 2-46 or 59 Class "B" or 2-6F6 Class "AB"	4, 8, 15 or 500 Ohms	4.00	2.35
A11066	T6792	D	4-2A3 PP parallel Class "AB"	4, 8, 15 or 500 Ohms	4.00	2.35
A11067	T6753	E	4-46 or 59 PP parallel Class "B"	4, 8, 15 or 500 Ohms	6.50	3.82
A11070	T6751	D	PP Pentodes, 79 Class "B," or 2-10 Class "A"	4, 8, 15 or 500 Ohms	3.50	2.05
A11071	T6594	D	PP50 Class "A," 2A5 or 42 Class "AB," or 2-79 Class "B"	4, 8, 15 or 500 Ohms	4.00	2.35
A11072	T7575	D	PP6B5, 2B6, or 6F6	4, 8, 15 or 500 Ohms	4.00	2.35
A11073	T8458	E	PP6L6 Class "AB	4, 8, 15 or 500 Ohms	6.00	3.53
A11074	T6760	D	1-19 or PP30, 49 Class "B"	4, 8 or 2000 Ohms	3.75	2.20

LINE TO SPEAKER

A11075	T6048	C	500 Ohms	Universal Voice Coils	$3.00	$1.76
A11076	T5381	B	500 or 250 Ohms	4, 8 or 15 Ohms	4.50	2.65
A11077	T7674	C	500 Ohms (Auto-transf.)	500, 250, 166, 125, 100 or 84 Ohms	3.00	1.76

CLASS "B" AND "AB" INPUTS

A11078	T6750	D	1-89 Class "A"	1-79 or 53 Class "B"	$2.75	$1.62
A11079	T6789	D	1-89 Class "A"	2-79 parallel Class "B"	3.50	2.05
A11080	T6747	D	1-53 (plates in parallel)	1-53 Class "B"	2.75	1.62
A11081	T6778	D	1-46 or 59 Class "A"	2-46 or 59 Class "B"	3.50	2.05
A11082	T6698	B	2-46 or 59 PP Class "A"	4-46 or 59 push-pull parallel Class "B"	5.25	3.09
A11083	T6578	D	1-2A5 or 42 Triode	PP 2A5's or 42's Class "AB"	4.50	2.65
A11084	T7201	D	PP 56's, etc.	PP 45's Class "AB"	3.75	2.20
A11085	T8142	D	6F6 Triode	PP 6F6 Class "AB"	3.75	2.20
A11086	T8459	D	PP 6C5, 37, 76, etc.	PP 6L6 Class "AB"	3.75	2.20

MODULATION TRANSFORMERS

A11087	T6426	B	2-46 or 59 Class "B"	5,000 or 10,000 Ohms (100 MA)	$6.00	$3.53
A11088	T6425	B	2-210 Class "B"	5,000 or 10,000 Ohms (200 MA)	9.00	5.29
A11089	T6759	D	1-53, 6A6 or 79 Class "B"	3,000 Ohms (100 MA)	3.00	1.76

TRANSCEIVER AUDIOS

A11090	T5463	D	1-30 or 49 Class "A"	1-19 or 2-49's Class "B"	$2.50	$1.47
A11091	T6769	D	1-19 Class "B"	2,700 Ohms (50 MA)	2.75	1.62
A11074	T6760	D	1-19 or PP30 Class "B"	4, 8 or 2000 Ohms	3.75	2.20
A11093	T6806	D	Single Pentode	10 or 2000 Ohms	2.50	1.47
A11094	T7258	C	Single Pentode	High or Low Impedance Phones	1.65	.97
A11095	T7259	C	Single Plate and Single Button Microphone	Single Grid	1.65	.97

TRANSFORMERS FOR NEW 6L6 TUBES

A11100. T8460. **Plate Transformer. Fig. E. Specially designed to supply plate and screen voltages to 6L6's.** Primary, 115 volts, 60 cycle; secondary 400 volts, 250 M.A., and 300 volts, 50 M.A. With bias tap at 25 volts. 5x3⅝x4¾". Shpg. wt., 14 lbs.
NET **$5.29**

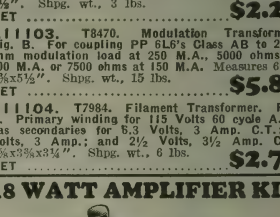
A11073. T8458. **Output Transformer. Fig. E. For coupling push-pull Class AB 6L6's to 4, 8 or 15 ohm voice coil or 500 ohm line.** Measures 3⅞x3⅜x3¾". Shpg. wt., 8 lbs.
NET **$3.53**

A11086. T8459. **Driver Transformer. Fig. D. For coupling PP 6C5's, 76's, etc., to PP 6L6's Class AB.** Ratio of primary to ½ secondary is 5 to 1. Split secondary type. Measures 3x2½x2½". Shpg. wt., 3 lbs.
NET **$2.20**

A11103. T8470. **Modulation Transformer. Fig. B. For coupling PP 6L6's Class AB to 2500 ohm modulation load at 250 M.A., 5000 ohms at 200 M.A. or 7500 ohms at 150 M.A.** Measures 6¼x4⅝x5½". Shpg. wt., 15 lbs.
NET **$5.88**

A11104. T7984. **Filament Transformer. Fig. E. Primary winding for 115 Volts 60 cycle A.C., has secondaries for 6.3 Volts, 3 Amp. C.T.; 5 Volts, 3 Amp.; and 2½ Volts, 3½ Amp. C.T.** 4⅝x3⅜x3¾". Shpg. wt., 6 lbs.
NET **$2.79**

18 WATT AMPLIFIER KIT



Build your own high-quality high-gain amplifier around this new, superior Thordarson 18 Watt Class AB circuit. Complete kit offered below has all components matched. Easy to build, superior in operation. Universal input for any microphone; field supply for 1 to 4 speakers; built-in pre-amplifier; built-in microphone current supply, etc. Uses 2-6C6, 2-76, 2-42 Class AB, 1-82 and 1-83. Begin with the foundation unit; add units as you progress.

FOUNDATION UNIT T-7518

Consists of separate amplifier and power supply bases, with sockets mounted and all other necessary holes drilled; also includes 1-sub-assembly base; 4-resistor mounting strips; input and output terminal strips, and complete diagrams and instructions.
A11110. YOUR PRICE..... $3.53

No.	Type	Description	NET
A11111	T7428	Power Transf.	$3.82
A11112	T7429	Power Choke	2.79
A11113	T7430	Filter Choke	.88
A11114	T7431	Input Impedance	2.05
A11115	T7432	P.P. Input	2.20
A11116	T1892	Choke	1.03
A11031	T5319	Choke	.79
A11117	T7549	Choke	.79
A11071	T6594	Output Transf.	2.35

COMPLETE ESSENTIAL KIT

A11118. Consists of all necessary transformers and chokes (as listed above) for building the Thordarson T7518 18 Watt High Gain Amplifier. YOUR PRICE..... **$16.70**

COMPLETE PARTS KIT

A11119. All resistors, volume and tone controls, condensers, switches, tube shields, hardware, etc., required for completing the Thordarson 18 Watt Amplifier. Does not include above Essentials Kit, Foundation Unit, Tubes or Speaker. SEND FOR DETAILED FREE PARTS LIST AND DESCRIPTION.
YOUR PRICE **$12.25**

THORDARSON SOUND MANUAL

Full of valuable data on how to build the new type amplifiers; covers preamplifiers, input and output circuits, etc.
A11001. NET **9c**

FOR COMPLETE INDEX SEE PAGES 135-136

AUDIOS · OUTPUTS · CHOKES

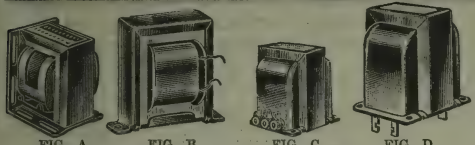


FIG. A FIG. B FIG. C FIG. D

THORDARSON TRANSFORMERS

Dependable audio units assuring good reproduction at attractive low prices. Universally adaptable for service replacement work.

AUDIO COUPLING TRANSFORMERS

Cat. No.	Type	Fig.	Ratio	Size	List	NET
A11121	R100	A	1-3	2⅜x1⅝x2"	$1.75	$1.03
A11122	T2999	B	1-3	1⅞x2 x2¼"	1.75	1.03
A11123	T5736	D	1-3	2 x2 x2¼"	2.00	1.18
A11124	T5737	B	1-3	2⅛x2½x3"	3.00	1.75
A11125	T5738	D	1-3	2½x2½x3"	3.25	1.90
A11126	R300	C	1-3	2½x2½x3"	3.50	2.05
A11127	T7574	D	1-2	2⅝x2 x2⅛"	2.50	1.47

PUSH-PULL INPUTS

Cat. No.	Type	Fig.	Ratio	Size	List	NET
A11128	R101	A	1-3	1⅞x2 x2⅜"	$2.25	$1.32
A11129	T3391	B	1-3	1⅞x2 x2⅜"	2.00	1.18
A11130	T5739	D	1-3	2 x2 x2⅜"	2.25	1.32
A11131	T5740	B	1-3	2½x2½x3"	3.25	1.90
A11132	T5741	D	1-3	2½x2½x3"	3.50	2.05
A11133	T5742*	B	1-3	2½x2½x3"	3.25	1.90
A11134	T5743*	D	1-3	2½x2½x3"	3.50	2.05
A11135	T4304	C	1-3	2½x2½x3"	3.75	2.20

*Specially designed primary for power detector.

PUSH-PULL INTERSTAGE

Cat. No.	Type	Fig.	Ratio	Size	List	NET
A11136	T6434	B	1-1.3	2½x2½x3"	$3.50	$2.05
A11137	T5870*	D	1-1.5	2½x2½x3"	3.75	2.20
A11138	T6791	B	1-1.5	2½x2½x3"	3.50	2.05

*May be used in Class "A" Prime amplifiers where some grid current flows. Not designed for Class "B" use.

OUTPUT TRANSFORMERS

Cat. No.	Type	Fig.	Primary	Size	List	NET
			FOR .1 TO 29 OHM VOICE COILS			
A11062	T5701	B	Universal for single or P.P. tubes	2⅜x2x2"	$2.00	$1.18
			FOR 6 TO 12 OHM VOICE COILS			
A11140	T3399	B	PP45, etc.	2⅜x2x2"	$1.60	$0.94
			FOR 4, 8, 15 OHM VOICE COILS, and 500 OHM LINE			
A11064	T6748	D	PP45, Class "A," or 1-53 Class "B"	3x2½x2½"	$3.50	$2.05
A11063	T6754	D	PP2A3, Class "AB"	3½x2⅞x3"	4.00	2.35
A11065	T6752	D	2-53's PP parallel Class "B," or 2-46 or 59 Class "B"	3½x2⅞x3"	4.00	2.35

PUSH-PULL OUTPUT CHOKES

Cat. No.	Type	Fig.	MA	Henries	Size	List	NET
A11144	R102	A	20	265	1⅞x2x2⅜"	$2.00	$1.18

PLATE COUPLING CHOKES

Cat. No.	Type	Fig.	MA	Henries	Size	List	NET
A11145	T2927	B	.5*	1080	2⅛x1¾x2⅜"	$1.50	$0.88
A11146	T5298	D	.5*	1080	2⅛x1⅝x2⅜"	1.75	1.03
A11147	T3736	D	5.	510	2⅛x2 x2⅜"	2.25	1.32
A11148	T6746	B	5.	510	2⅛x1⅞x2⅜"	2.00	1.18

*For use as plate inductance with S. G. tubes. Max. cap. 8 MA.

FILTER CHOKES

Cat. No.	Type	Fig.	Henries	MA	Ohms	Size	List	NET
A11116	T1892	B	22	35	405	2⅝x2⅝x2¼"	$1.75	$1.03
A11117	T4707	B	12	75	290	2⅝x2¼x2"	1.75	1.03
A11150	T6807	B	15	85	375	3 x2½x2"	2.00	1.18
A11151	T5753	B	9.5	110	200	3 x2½x2"	2.00	1.18
A11152	T5754	D	9.5	110	200	3 x2½x2½"	2.25	1.32
A11153	T1708	D	12	130	231	3½x2⅞x3"	3.25	1.90
A11154	T1700	C	12	130	231	3¾x2⅞x3"	3.50	2.05

KNIGHT AC-DC CHOKES

May be used in any 4 or 5 tube midget set. Semi-shielded type with black enameled channel frame. Horizontal mounting. 6" insulated leads. Size, 1⅝" high, 2 13/16" long, 1½" deep. Mtg. centers, 2 5/16".

No.	Ohms	NET	No.	Ohms	NET
A11635	200	$.38	A11639	400	$.38
A11636	250	.41	A11640	450	.37
A11637	300	.43	A11641	500	.37
A11638	350	.37	A11642	550	.38

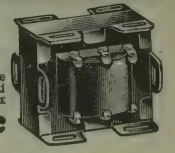
SHIELDED MICROPHONE TRANSFORMERS

A6050. Single button coupling transformer. Turn ratio, 1 to 64; impedance ratio, 1 to 4000. For single button carbon mike to tube input. Fully shielded.

A6051. Two button type. To couple any double button carbon microphones to single grid. Turn ratio, 1 to 45; impedance ratio, 1 to 2000.

NET EACH **$1.15**

KNIGHT TRANSFORMERS



UNIVERSAL AUDIO

A compact audio transformer suitable for use in any AC or DC set or amplifier. Supplied with Universal mounting bracket. Size, 2" x 2 1/16" x 2 5/16". Shpg. wt., 2 lbs.

A11644. YOUR PRICE **75c**

UNIVERSAL OUTPUT

Couples practically any power tubes, either single or push-pull to any dynamic or magnetic speaker. With universal mounting bracket. Size, 2" x 2 1/16" x 2 5/16". Shpg. wt., 2 lbs.

A11645. YOUR PRICE..... **75c**

UNIVERSAL PUSH-PULL INPUT

May be used to couple any single plate to any combination of single or push-pull tubes. Universal mounting bracket. Size, 2" x 2 1/16" x 2 5/16". Shpg. wt., 2 lbs. A11646. YOUR PRICE..... **78c**

STANDARD AUDIOS

Ideally suited for replacement purposes. Open type construction as illustrated. 3¼x1⅞x1¾". Mtg. centers, 2¾". Shpg. wts., 2 lbs. each.

A11647. 3-1. Straight audio. 1 plate to 1 grid.
A11648. 3-1. Push-pull input. 1 plate to 2 grids.
A11649. 3-1. Push-pull interstage. 2 plates to 2 grids. NET EACH..... **75c**

UNIVERSAL OUTPUT TRANSFORMER

A heavy-duty, unshielded output transformer for universal application. Will accurately match any single or push-pull output stage to any speaker voice coil. Strap mounting. Size, 2¾x2⅜x1".

A11005. YOUR PRICE..... **95c**

FILTER CHOKES

Open type construction, with leads. Size 1¾" x 2" x 2¾".

A11650. 25 henries at 25 MA. 850 ohms DC resistance. YOUR PRICE **79c**
A11651. 25 henries at 60 MA. 325 ohms DC resistance. YOUR PRICE **65c**
A11652. 20 henries at 80 MA. 250 ohms DC resistance. YOUR PRICE **85c**
A11653. 20 henries at 150 MA. 200 ohms DC resistance. YOUR PRICE **94c**
A11654. 750 henries at 5 MA. 3500 ohms DC resistance. Plate coupling choke for screen grid detector tube. Has high impedance at audio frequencies. YOUR PRICE..... **94c**

MICROPHONE TRANSFORMER

Suitable for single or double button microphone. Tapped primary. Open frame type. 1⅜" x 1⅞" x 3". Mtg. cent., 2½".

A11655. YOUR PRICE..... **68c**

SPECIAL AUDIO TRANSFORMERS

Real buys. Well-built and substantial. Open frames.

A11656. 3 to 1 audio. 1½" x 1⅞" x 3". Mtg. Cent. 2½". YOUR PRICE **62c**
A11657. Push-pull input. Open frame type. 1½" x 1⅞" x 2¾". Mtg. Centers 2¼". YOUR PRICE..... **65c**

OUTPUT TRANSFORMERS

To feed into 8 to 15 ohm voice coil. Open frame.

A11658. Single 45, 43, 48, 59, 71A. 1⅜" x 2 7/16" x 1 5/16". NET. **59c**
A11659. Single 47, 2A5, 49, 42, 33. Size, 1⅞" x 2 7/16" x 1 9/16". YOUR PRICE **65c**
A11660. Push-pull 45, 43, 48, 59, 71A. Size, 2" x 1⅝" x 2¾". YOUR PRICE **69c**
A11661. Push-pull 47, 2A5, 49, 42, 33. Size, 1⅞" x 2 7/16" x 1 9/16". YOUR PRICE..... **69c**

OUTPUT TRANSFORMERS

Well-designed and substantially built. For operation directly from plates of power tubes into 6 to 10 ohm voice coils of dynamic speakers. For single and p.p. power tubes.

STAMCOR

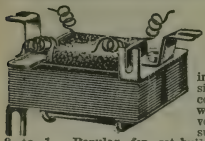
SINGLE

A11663. A2203. 43, 45, 48, 59, 71A tubes. Size 2x1⅝x2¾". Mtg. centers 2", 1 lb. List, $1.10. NET..... **65c**
A11664. A2200. 43, 45, 48, 59, 71A tubes. Size 2x1⅝x2 13/16". Mtg. centers 2 13/16". List, $1.40. NET..... **82c**
A11665. A2227. 31, 41, 10, 12 tubes. Size and mtg. as above. Wt., 1 lb. List, $1.40. NET..... **82c**
A11666. A2313. 33, 42, 47, 49, 2A5 tubes. Size and mtg. as above. Wt., 2 lbs. List, $1.40. NET..... **82c**

PUSH-PULL

A11667. A2220. PP43, 45, 48, 59, 71A tubes. Size 2x1⅝x2¾". Mtg. centers 2". 1 lb. List, $1.20. NET..... **71c**
A11668. A2201. PP43, 45, 48, 59, 71A tubes. Size 2x1⅝x3 5/16". Mtg. centers 2 13/16". List, $1.50. NET..... **88c**
A11669. A2231. PP31, 41, 10, 12 tubes. Size and mounting as above. Wt. 2 lbs. List, $1.50. NET..... **88c**
A11670. A2312. PP33, 42, 47, 49, 2A5 tubes. Size and mounting as above. Wt. 2 lbs. List, $1.50. NET..... **88c**

JEFFERSON · TRANSFORMERS · THORDARSON



UNIVERSAL AUDIO REPLACEMENT TRANSFORMER

A small, compact audio unit for use in any AC or DC set. Core of high grade silicon steel with accurate machine-wound coil. True Jefferson quality. Furnished with two sets of brackets for horizontal or vertical mounting. Low height makes it suitable for sub-base mounting. Ratio, 2 to 1. Popular for set-building and replacement purposes. Size, 1⅜"x2⅜"x2¼". With flexible leads. Shpg. wt., 2 lbs.

A6025. Type 467-164. List, $1.25.
YOUR PRICE **73c**

NEW STAR SEALED TRANSFORMERS

Outstanding values in high quality transformers for use in any set or amplifier, A.C. or D.C. Machine-wound coils for accuracy and uniformity. Laminated core of high silicon steel. Assembled in black enameled sheet steel cases with nickeled binding posts. Windings completely shielded and clearly marked. Size, 2⅞"x2⅞"x2⅜" high. Mtg. centers 2⅜". Shpg. wt., 2 lbs. each.

A6030. 467-113. 3 to 1.
A6031. 467-116. 5 to 1.
List, $2.00.
YOUR PRICE EACH **$1.18**

A6032. 467-117. Push-pull input. (Lugs side.) 3-1.
A6033. 467-118. Push-pull input. (Lugs bottom.) 3-1. List, $2.10.
NET EACH **$1.23**

MICROPHONE TRANSFORMERS

Microphone to grid. Single-button types have turn ratio of 1 to 64; double-button type 1 to 45. Flat response, 30-7000 cycles. These are low-cost high quality units.

A6036. 467 - 413. Single Button; strap mounting. 2 x 3¼ x 1⅞". Shpg. wt., 1½ lbs. List, $1.30. NET.. **76c**

A6037. 467 - 414. Double Button; strap mounting. 2 x 3¼ x 1⅞". Shpg. wt., 1½ lbs. List, $1.40. NET.. **82c**

A6034. 467 - 261. Single Button. Shielded type. 2¼ x 2⅞ x 2⅞". List, $1.90. NET.... **$1.12**

LINE TO VOICE COIL OUTPUT TRANSFORMER

A high-quality heavy-duty transformer capable of handling up to 12 watts continuously; ideal for P.A. installations. Several of these transformers may be connected in various series or parallel arrangements for coupling a number of speakers to a 500 ohm line. Primary impedance is 1000 ohms, with taps at 500 and 250 ohms, for matching almost any line. Secondary is 3, 6, 9 and 15 ohms. Size, 4x2⅛x2½". Wt., 3 lbs.

A6135. Type 467-438. List, $2.95.
YOUR PRICE **$1.73**

NEW JEFFERSON PLASTIC-SEALED TRANSFORMERS

A completely new line of transformers, hermetically sealed with a plastic coating. This coating has a high melting point, is moisture-proof, permanently adheres to and seals all exposed surfaces and assures positive protection from adverse climatic conditions. The very last word in transformer design and construction. Absolutely dependable units.

ABSOLUTELY MOISTURE-PROOF

The delicate windings are completely protected against electrolysis or deterioration, assuring peak performance from the transformers at all times. Each unit is carefully made to meet the highest standards of transformer construction. The coils are precision-made, machine-wound, vacuum-dried and impregnated; cores of laminated silicon steel, annealed after stamping. The ideal transformer where consistently dependable performance is desired.

AUDIO TRANSFORMERS

No.	Type	Ratio	Size	NET
A6155	467-501	1 to 2	2⅞"x1⅝"x1⅞"	73c
A6156	467-503	1 to 3	3¼"x1⅞"x2⅛"	88c

P. P. INPUT TRANSFORMERS

A6157	467-502	1 to 2	2⅞"x1⅝"x1⅞"	76c
A6158	467-504	1 to 3	3¼"x1⅞"x2⅛"	94c

OUTPUT TRANSFORMERS

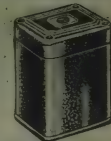
For single or P. P. 71A, 45, 33, 42, 47, etc. Have 7000 ohm primaries.

No.	Type	Watts	Secondary	Size	
A6159	467-509	2	4 to 6 ohms	2⅞"x1⅝"x1⅞"	71c
A6160	467-510	3½	6 to 8 ohms	3¼"x1⅞"x2⅛"	79c

CHOKES

A6161	466-590	20 H. at 50 M.A.	425 Ohms	3¼"x1⅞"x2¼"	88c
A6162	466-540	250 H. at 10 M.A.	5000 Ohms	2⅞"x2"x2½"	76c

THORDARSON TRU-FIDELITY TRANSFORMERS



The sensational new design of these transformers makes possible the realization of really true fidelity. Completely shielded from external fields and electrostatically shielded between primary and secondary. Single hole mounting does away with brackets, and permits over or under chassis mounting. Size, 2⅝"x 3⅛"x4". Wt., 4¼ lbs. (*Indicates capacitive and inductive balance to center tap, for use on balanced transmission line.)

Line or Mike to Single Grid

Type T-9000. For coupling a line, microphone or mixer into the grid of any tube. Primary impedances, 500*-333-250-200*-125 and 50 ohms. Secondary impedances, 75,000 and 18,750 ohms.
A11170. NET **$8.53**

Line or Mike to P.P. Grids

Type T-9011. For coupling a line or microphone to the grids of push-pull tubes. Primary impedances, 500*-200*-125 and 50 ohms. Secondary imp. 150,000 and 37,500 ohms.
A11171. NET... **$10.88**

Line or Mike to Line

Type T-9010. Primary impedance 500*-333-250-200*-125 and 50 ohms. Secondary impedance, 500*-333-250-200*-125 and 50 ohms.
A11172. NET **$7.35**

Crystal Mike or Photo Cell to Line

Type T-9006. Special high impedance primary; Secondary impedances, 500*-333-250-200*-125 and 50 ohms.
A11173. NET..... **$9.11**

Audio Reactor

Type T-9009. For parallel feed circuits, etc. Has inductance of 300 Henries at 8 M.A. D.C., or 75 Henries at 16 M.A. D.C.
A11182. NET **$5.88**

P. P. Plates to P. P. Grids

Type T-9005. For applications which call for coupling push-pull triode type tubes into push-pull output tubes. Primary impedances, 20,000 and 5,000 ohms. Secondary, 45,000 and 11,250 ohms.
A11178. NET **$7.35**

Single Plate to Single Grid

Type T-9003. Intended for coupling a single triode type tube to another single tube in cascade order. Primary impedances are 10,000 and 2,500 ohms. Sec., 40,000 and 10,000 ohms.
A11176. NET..... **$5.88**

Single Plate to P. P. Grids

Type T-9004. As above, but with Sec. of 160,000 and 40,000 ohms.
A11177. NET **$6.76**

Line to Voice Coil

Type T-9012. Line to voice coil of dynamic speakers. Primary impedances, 500*-333-250-200*-125 and 50 ohms. Sec., 1.25-3.75-5-7.5-10 and 15 ohms.
A11181. NET **$8.53**

P. P. Power Tubes to Line

Type T-9007. Primary 5,000-3,000-1,250 and 750 ohms. Secondary 500*-333-250-200*-125 and 50 ohms.
A11179. NET **$8.53**

P. P. Tubes to V. Coil

Type T-9008. Similar to T-9007, but has secondary 1.25-3.75-5-7.5-10 and 15 ohms.
A11180. NET **$8.53**

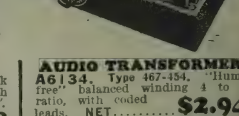
Single Tube to Line

Type T-9002. For coupling single triodes 864, 6C6, 6J7, etc., to a line or mixer. Primary impedances, 20,000 and 5,000 ohms. Secondary impedances, 500*-333-250-200*-125 and 50 ohms.
A11174. NET **$8.53**

P. P. Tubes to Line

Type T-9001. P.P. triodes to line. Primary impedances, 20,000 and 5,000 ohms. Secondary impedances, 500*-333-250-200*-125 and 50 ohms.
A11175. NET..... **$8.53**

JEFFERSON METAL TUBE 18 WATT HIGH GAIN AMPLIFIER KIT



Powerful 18 watt amplifier using metal tubes: 2—6C5, 3—6F6's, 1—6J7 and 1—5Z4. Push-pull 6F6's used in Class "AB" have a flat frequency response from 60 to 10,000 cycles, with a variation of approximately ±1 D.B. Simple to assemble and very easy to wire. Very flexible. Can also be used as speech amplifier in amateur transmitters.

CHASSIS BASE

A6616. Type 469-108. Black crackle chassis base complete with template. Measures 11"x17"x3¾". List, $2.00.
NET **$1.18**

POWER TRANSFORMER

A6131. Type 463-501. Primary 120 volts, 50-60 cycle, 110 volt tap. Plate voltage 400 volts D.C. at 100 MA. Also has filament windings. Coded leads out of base.
NET **$2.94**

INPUT DRIVER

A6132. Type 467-461. Couples 6F6 to Pp 6F6's. Compound filling makes transformer impervious to moisture. With coded leads. NET.... **$1.76**

OUTPUT TRANSFORMER

A6133. Type 467-460. Tapped at 3, 6, 9 and 15 ohms with separate winding for 500 ohm line. Fully shielded. Leads out of base.
NET **$2.35**

AUDIO TRANSFORMER

A6134. Type 467-454. "Humfree" balanced winding 1 to 1 ratio, with coded leads. NET..... **$2.94**

FILTER CHOKES

A6137. Type 465-300. No. 1. Low resistance filter choke. Cap. 150 M.A. Inductance 8 H. Shielded and compound filled. List, $2.50.
NET **$1.47**

A6138. Type 466-430. No. 2. Cap. 150 M.A. Inductance 10 Henries. Resistance 200 ohms. Shielded and compound filled. NET..... **$1.32**

A6617. Complete 18 Watt 6F6 Metal Tube High Gain Amplifier Kit. Includes all transformers and chassis base listed above and all necessary resistors, condensers, instructions, etc., (no tubes or speakers).
YOUR PRICE..... **$21.45**

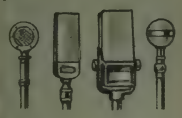
New Knight SOUND EQUIPMENT

Designed FOR MAXIMUM EFFICIENCY
Built TO EXACTING STANDARDS
Priced TO BRING YOU PROFITS

EW FEATURES FOR *Extra Value*

Output Indicator. xclusive in **Knight** Amifiers. Has calibrated utput level meter which ermits accurate mainnance of any desired olume level. Furnished ith chart for translatg calibration to correponding level in watts.

Universal input. All **night High-Gain Amlifiers** have universal inut permitting the use of ny type high-impedance icrophone. All **Knight ound Systems** offer a hoice of either Crystal iaphragm, static-veloc- y Velotron, Velocity or ound Cell Microphones.



Metal Tubes. The latt metal type tubes are sed in many of the **night Amplifiers.** ube complements are refully chosen to prode maximum power utput with highest fidel- y of reproduction.

Modern Design. The **ew Knight Sound Amlifiers** are distinguished or their attractive odern design. They are nished in brown-crinkle ith harmonizing chroium and brown control anels, output indicator rip, etc. America's most tractive P. A. line.

Other Value Feaures. Built-In Mixer; niversal Output; Polared Plugs and Receptacles; Phonograph Inut; Tone Control; Full ated Output; Economial Operation; Universal daptability, etc.

Every Knight Sound System represents maximum value for your dollar—in constant dependability, higher quality and finer performance and tone. On the following pages you will find new Knight Sound Equipment to cover practically every Sound need; our answer to the constantly-growing demand for the high quality Knight line of Public Address Equipment. New features, perfected in the World's greatest Sound Laboratories, give you extra value. New low prices, the result of large volume production, bring you greater savings. Honest, conservative ratings, and careful assembling and testing before shipment afford fullest protection; our Helpful Consulting Service saves you time, trouble and money by recommending dependable and proper equipment for every requirement. Our liberal guarantee is your assurance of consistent satisfaction. For these reasons it will pay you to do your Sound buying at ALLIED—Sound Headquarters.

NOW YOU CAN BUY *Knight* P.A. EQUIPMENT ON *Easy Terms*

TABLE OF TERMS				
Unpaid Balance	6 MONTHS		9 MONTHS	
	Amt. Per Month	Amt. of Contract	Amt. Per Month	Amt. of Contract
$ 60	$10.70	$64.20	$ 7.31	$65.79
70	12.42	74.52	8.46	76.14
80	14.15	84.90	9.61	86.49
90	15.87	95.22	10.77	96.93
100	17.59	105.54	11.92	107.28
120	21.03	126.18	14.23	128.07
140	24.47	146.82	16.53	148.77
160	27.91	167.46	18.84	169.56
180	31.36	188.16	21.14	190.26
200	34.80	208.90	23.45	211.05

Write us for Terms on Orders of over $200.

Don't lose big profits in P. A. for lack of cash! You can get any of the profit-building Knight P. A. equipment you need—**NOW**—and make it earn for you while it pays for itself. You can buy Knight Public Address Equipment easily and conveniently on our attractive new Monthly Payment Terms, if your order comes to $75 or more. You can buy the smaller systems, too, on Easy Terms, by including additional equipment which will build your order up to $75 or more. You can have your choice of six months or nine months to pay. You pay approximately 20% down, and the balance in convenient monthly payments. See table above for our liberal time payment terms and attractive low carrying charges. Select the Knight Public Address Equipment you want now, and write to us for full details of our liberal and convenient Time Payment Plan.

Here's What 'HEY SAY ABOUT *Knight* 'UBLIC ADDRESS EQUIPMENT

Knight Sound Equipsent is Dependable"

". . . made my first purase from ALLIED . . . a 0 Watt KNIGHT Sound ystem . . . after a year's hard ervice—after seeing most of e others working in competion—I wouldn't trade my NIGHT equipment for any have seen. Mine is dendable and always makes od while some of the others create a lot of 'griefs'."
-W. I. Morrison, Elmira, . Y.

"Pleases Everyone Who Hears It"

"Received the (KNIGHT) 0-watt Sound System . . . ank you for your co-operon . . . everyone who has ard it says that it is the ainest P. A. system they ve ever listened to."—W. . Ryan, E. Detroit, Mich.

"Crowd In Stadium Hears Every Word"

". . . because the new Sandusky High School stadium was not entirely completed, I was asked to install temporarily the KNIGHT 50-watt amplifier system which you recommended, for the dedicatory exercises . . . this makeshift set-up gave ideal results in spite of being called upon for more coverage than was planned for the permanent installation . . . a crowd of about 10,000 people heard every word of the ceremonies clearly and distinctly. The opinion was voiced by many fans that it was the best P. A. system they had ever heard."—
L. Winkler, Sandusky, Ohio

"School System Operates Perfectly"

"We have a good P. A. system at an almost unbelievably low cost . . . Our (KNIGHT) system has operated perfectly since the first time we used it, and has given no trouble at all . . . we have had a lot of very fine comment on the clear, high fidelity, and the noiseless reception which is practically free of hum. . . . We never have to tune our set. The controls are set, and it reproduces in a clear, natural tone, day in and day out. It would be too long a story to explain in detail the numberless ways in which our KNIGHT System has proven its worth."—
W. F. Currington, City Public Schools, Jackson, Ohio.

"Creates Sales On Sight Alone"

"Received 35-watt (KNIGHT) amplifier . . . and the man who ordered it through me is very much pleased with it. I had it out on two demonstrations . . . both places intend to buy . . . they are also pleased with the set."—E. L. Grove, Huntingdon, Pa.

"Knight P. A. Can't Be Beat"

"My father . . . purchased a (KNIGHT) P. A. System from you some time ago, and sold it to the merchants of our town. It sure can't be beat."—G. W. Cornish, c/o George's Service, South Haven, Kansas.

"Proud of Knight P. A. System"

"The (KNIGHT) equipment works beautifully and we are very proud of it."—
V. A. Vaughn, Kinder Tribune, Kinder, La.

BEHIND EVERY *Knight* P.A. UNIT—

Skillful ENGINEERING! *Precision* BUILDING! *Careful* TESTING!

THERE IS A *Knight* P. A. SYSTEM FOR *Every Purpose*

Permanent

For schools, churches, theaters, auditoriums, etc.—wherever the demand requires high fidelity of tone, dependability in operation and ease of installation—there is a quality **Knight P. A. System** to meet the requirements of the most discriminating purchaser of high quality equipment.

Portable

Featuring exceptional power, wide-range fidelity and compact completeness, the new **Knight Portable Systems** are designed especially for use by orchestras, lecturers, funeral parlors, skating rinks, sideshows, carnivals, and for demonstration purposes. These portable systems offer versatility at low cost.

Mobile

The new **Knight Mobile Sound Systems** are ideal for use in sound trucks and cars. Compact and portable, they operate both from a single storage battery or 110 Volts A. C., powerfully and dependably. Invaluable for street demonstrations, ballyhoo and outdoor advertising. Built for dependable, powerful service.

Call Systems

These efficient units are becoming more popular every day through their hundreds of practical, invaluable uses; they are suitable for paging, for announcement purposes, and for direct communication in factories, stores, offices, camps and institutions. **Knight Intercom Systems** are exceptionally low-priced.

Centralized System

To meet the need c complete sound distribu tion in schools, hotels, de partment stores, etc **ALLIED** has availab **Knight Centralize Sound Systems** whic are distinguished for com pleteness, flexibility an outstanding quality a low cost.

Sound Specialists

ALLIED's recognized position as Sound Headquarters is based on a wide range of actual practical experience in the Public Address field. Every day our trained expert staff of Sound Specialists solves the Sound problems of scores of customers—recommending the proper installations for individual requirements.

Sound experts supervise the assembling, testing an shipping of every Sound System. Our Sound Engineer have collaborated with industrial organizations, architects and educators in designing specialized sound equipmen for schools, industry, hospitals, prisons, etc. Final, ex haustive tests for maximum safety and operating per formance are given each Knight Sound System in ou modern laboratories before shipment. Only Sound Specialists can assure you of such care and skill in meeting your Sound requirements. That is why Public Addres purchasers everywhere depend on ALLIED for the finest in Sound Equipment.

FREE CONSULTING SERVICE

We invite you to submit your Public Address problem to our Sound Engineers for authoritative aid and proper recommendations, without any obligation on your part Our vast experience in selecting Sound Equipment fo individual requirements is reflected in the many highly successful installations made by thousands of our customers in all parts of the world. Whether you make you inquiry by mail or whether you visit our Sound Studios personally, the experience and knowledge of our Sound Engineers are always at your disposal. It will pay you to take advantage of our Consulting Service when modernizing old systems or planning new installations.

HOW TO ORDER P. A. EQUIPMENT

We can supply Sound Equipment for every conceivabl need and purpose. The standard *Knight Systems* listed on the following pages will cover most requirements. If however, you are unable to decide upon the exact type of equipment you will need, our Engineers will be glad to advise you. We ask only that you supply us with the following information: (1) Tell us the purpose for which you require the equipment; for example, whether for church, school, ballyhoo orchestra use, etc.; (2) State whether you desire permanent or portable equipment; (3) Advise what current you have available; (4) If possible, supply us with a rough sketch indicating all important dimensions of area to be covered, (institutions may submit blueprints which will be safely returned); (5) Indicate any special preferences you may have in regard to microphones, speakers, etc. State your requirements as clearly and completely as possible so that we can help you select the proper equipment promptly.

SEE PREVIOUS PAGE FOR TIME PAYMENT PLAN

Guarantee

All Knight Sound Systems are manufactured under license arrangements with Electrical Research Products, Inc., subsidiary of Western Electric Co., Inc., Radio Corporation of America.

Every Knight Amplifier is honestly and conservatively rated at its normal continuous output. Every Knight Amplifier is designed so that its tubes operate at proper working voltages. Every component used in Knight Sound Systems is perfectly matched, and of the finest quality available for P. A. service, to assure maximum power, finest fidelity and steadiest performance.

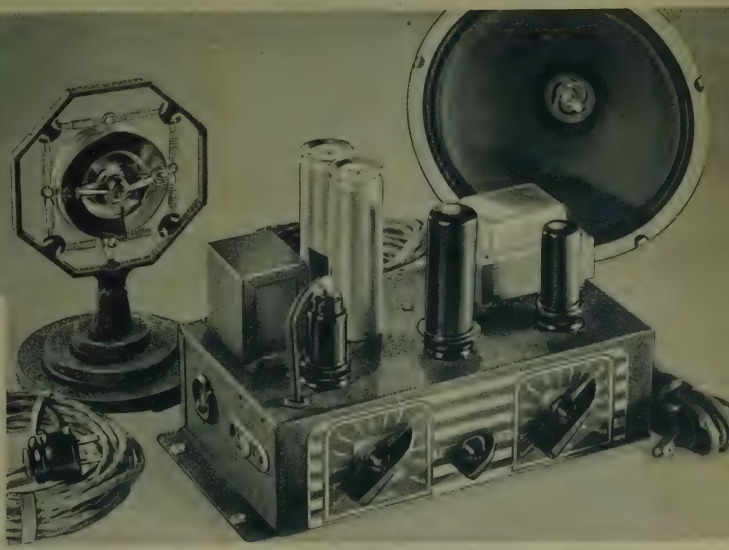
Every Knight Sound System conforms, further, to the standards of the Radio Manufacturers' Association and will perform in the manner intended for such apparatus. Any merchandise that does not so operate, if returned at once, will be promptly adjusted by exchange, repair or refund.

—ALLIED RADIO CORPORATION

Knight 8 WATT STANDARD "Little Giant" SOUND SYSTEM

IDEAL FOR:

- SMALL HALLS
- CHURCHES
- STORE DEMONSTRATIONS
- CLUBS AND LODGES
- AUCTION ROOMS
- TAVERNS
- GARAGES
- SIDE-SHOW BALLYHOO
- CALL SYSTEMS
- WEIGHMASTERS
- BUS TERMINALS
- BROKERAGE OFFICES
- ELOCUTION SCHOOLS
- PARKING LOTS
- WINDOW DISPLAYS, ETC.



The amazing new 6L6 Electron Beam Metal Power Output Tube is used in the efficient Standard "Little Giant" **Knight 8 Watt Sound System.** Assures full 8 watts output with minimum distortion.

Individual volume controls are provided for mixing or blending microphone and phonograph.

Has plug-in input for use with phonograph pickup. See page 81 for suitable portable phono.

FULL 8 WATTS OUTPUT

A newly designed low-cost sound system ideally suited for small installations where limited coverage is desired. Comes complete, ready to set up quickly and easily. Has many distinct advantages in compactness and completeness; no external batteries or mixers are required; microphone transformer and current supply are built-in. Output is full eight watts with remarkably true tonal fidelity. The complete **Knight 8 Watt System** has essentially uniform frequency response from 80 to 5000 cycles. A variable Tone Control is provided to accentuate bass or treble as desired and to compensate for varying acoustical conditions. Each system is carefully tested in our laboratory before shipment. Complete easy-to-follow instructions make installation and operation extremely simple.

METAL TUBES

The newest type metal tubes are used to the fullest advantage in the **Knight 8 Watt System.** A 6J7 voltage amplifier tube and a 6L6 Beam Power Output tube provide a gain of 69 db., with full 8 watts power output. A 5Z4 metal tube is used as rectifier. The use of the new 6L6 Beam Power Amplifier tube keeps distortion at a minimum assuring ample output with fine fidelity. Hum level is exceptionally low. Draws only 56 watts from 110 Volt A.C. line. Field current for the dynamic speaker is supplied by the amplifier.

BUILT-IN MIXER

The **Knight 8 Watt Sound System** is supplied with a high-grade double-button carbon microphone. A twin tip-jack is provided for plugging-in high impedance phono pickup. Separate volume controls for both microphone and phonograph permit effective blending and fading action. MICROPHONE CURRENT IS AUTOMATICALLY SUPPLIED BY THE AMPLIFIER. No external batteries or mixers are required. Microphone and speaker receptacles are polarized and clearly marked for rapid convenient connection. Has tip jack for extra speaker or headphones.

COMPLETELY ASSEMBLED SYSTEM

The **Knight 8 Watt Sound System** comes complete with the following: "Little Giant" 8 Watt Amplifier, a high-grade full 8½ inch dynamic speaker with 25 foot 4 conductor cable and polarized plug attached, a good quality double-button carbon microphone with 25 foot 3 conductor cable and polarized plug, attractive 9 inch microphone desk stand, a kit of Raytheon metal tubes, and complete operating instructions. This high quality low-cost 8 Watt System has hundreds of useful applications wherever 110 Volt, 60 cycle A.C. is available. Shpg. wt., 36 lbs. (For portable case, see Page 82.)

A12009. Complete Knight 8 Watt System. List Price, $49.95.
YOUR PRICE **$23.95**

A12009. COMPLETE KNIGHT 8 WATT STANDARD SOUND SYSTEM....

$23.95

FEATURES:

- Built-In Mixer
- Metal Tubes
- Mike and Phono Input
- Built-In Mike Current
- Full Tone Control
- 6L6 Beam Power
- Full Dynamic Speaker
- Polarized Connections
- Compact—Complete

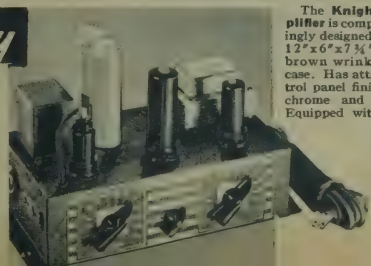
The Knight 8 Watt Sound System is manufactured under license arrangements with Electrical Research Products, Inc., subsidiary of Western Electric Co., Inc., Radio Corporation of America.

8 WATT AMPLIFIER *Only*

The **Knight 8 Watt Amplifier** is offered separately as an ideal replacement for old amplifiers or for use as the heart of practically any low-powered sound system. Has built-in microphone transformer and current supply; equipped with microphone and phonograph mixer. Has Tone Control. Develops full eight watts using 1—6J7 and 1—6L6 metal tubes and 5Z4 metal rectifier. Has an excellent gain of 69 db., with essentially flat frequency response from 80 to 10,000 cycles. Supplies field current for 1—1000 ohm dynamic speaker; output is from plate of 6L6. Input is for single or double-button carbon microphone and high impedance magnetic pickup. For 110 Volts, 60 cycles, A.C. Shpg. wt., 16 lbs.

A12008. 8 Watt Amplifier Only. List, $25.00.
YOUR PRICE **$12.95**

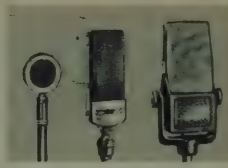
A12070. Kit of Raytheon Metal Tubes. NET **$3.13**



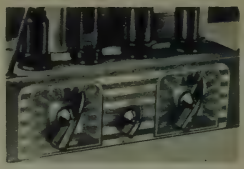
The **Knight 8 Watt Amplifier** is compactly and pleasingly designed. Measures only 12"x6"x7¾". In modern brown wrinkle-finish metal case. Has attractive new control panel finished in striking chrome and brown enamel. Equipped with harmoniously designed control knobs of brown bakelite. Has a really professional appearance.

Knight 8 WATT *High-Gain* "LITTLE GIANT"

The efficient new 6L6 Electron-Beam Metal Power Output Tube is used to its fullest advantage in the **High-Gain Knight 8 Watt Systems.**



Has universal input for any high-impedance microphone. Available with the latest Crystal, Velotron, or Velocity microphones. Your choice of microphone equipment is offered below.



Individual volume controls are provided for electronically mixing microphone and phonograph. Tone Control is also included. All controls are easily accessible on front panel.

Has plug-in input for high-impedance magnetic phono pickup. May be hooked up instantly. See page 81 for suitable portable phonograph.

IDEAL FOR:

- SMALL ORCHESTRAS
- STORE DEMONSTRATIONS
- WINDOW DISPLAYS
- SMALL HALLS
- CHURCHES
- AUCTION ROOMS
- SIDE-SHOWS
- GARAGES
- BUS TERMINALS
- PARKING LOTS
- BROKERAGE OFFICES
- DRAMA SCHOOLS
- WEIGHMASTERS
- TAVERNS
- CALL SYSTEMS
- HEARING AIDS, ETC.

The Knight 8 Watt High-Gain Sound System is manufactured under license arrangements with Electrical Research Products, Inc., subsidiary of Western Electric Co., Inc., Radio Corporation of America.

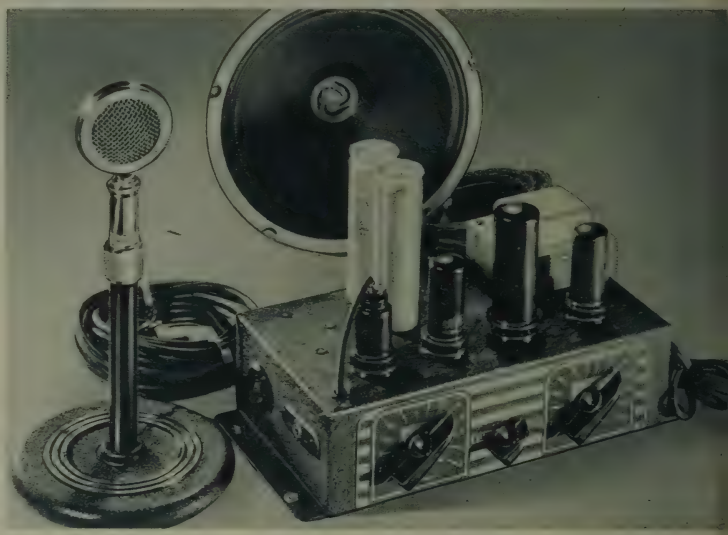
THE KNIGHT 8 WATT HIGH-GAIN CRYSTAL SOUND SYSTEM .....

$39.95

FEATURES:

- Universal Input For
  - Crystal
  - Velotron
  - Velocity Microphones
- Built-in Microphone Pre-Amplifier
- Electronic Mixer
- Metal Tubes
- Mike and Phono Input
- Tone Control
- 6L6 Beam Power Tube
- Polarized Connections
- Full Dynamic Speaker
- Compact—Complete

Each **Knight 8 Watt Sound System** is completely tested before shipment so that it measures fully up to the high standards of tonal and power performance of which it is capable. Every component has been carefully matched to assure outstanding results and long life.



8 WATT CRYSTAL MICROPHONE SOUND SYSTEM

For the first time at so low a price—a new high quality modern full 8 watt High-Gain Sound System with latest dual-diaphragm Crystal Microphone, using all of the advantages of the latest metal tubes for superb reproduction. Ideal for smaller installations where limited sound coverage or effective reinforcement is desired. The new high-gain amplifier permits the direct use of the latest type of Crystal Microphone for unusually fine fidelity. A high-grade full 8½ inch electro-dynamic speaker capably handles full output. The new **Knight 8 Watt High-Gain Sound System** is distinguished for its modern design and appearance. It is versatile in operation, giving continuous, dependable performance. Each system is carefully tested in our laboratory before shipment. Polarized connections and complete operating instructions permit quick and proper installation and operation.

WITH NEW CRYSTAL MIKE

The **Knight 8 Watt High-Gain Sound System** uses the new Astatic Dual-diaphragm non-directional Crystal Microphone. The built-in pre-amplifier stage makes its direct use possible without additional external amplification. The Astatic Crystal Microphone features exceptionally fine frequency response; will pick up sound from any angle; reduces "feed-back" to a minimum. All voice and musical frequencies are faithfully handled. The compact, watch-case size of the microphone makes it convenient to use. The **Knight 8 Watt High-Gain Sound System** has been skillfully engineered to utilize to the fullest the decided advantages of crystal microphone performance.

LATEST METAL TUBES

The **Knight 8 Watt high-gain amplifier** used in the system employs a powerful three stage circuit utilizing the newest metal tubes to the fullest advantage as follows: 1—6J7 as crystal mike preamplifier; 1—6N7 as electronic mixer and driver; 1—6L6 Electron Beam Power tube as power output; 1—5Z4 as rectifier. This modern tube line-up assures absolute rated output and minimum distortion. The Knight 8 Watt High-Gain Sound System comes to you complete with all cables and plugs attached. It can be set up instantly and is unusually simple to operate. For performance, for reliability and for value, the **Knight 8 Watt High-Gain System** is without competition.

NEW HIGH-GAIN CIRCUIT

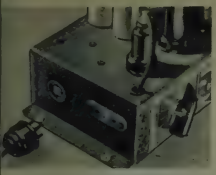
The new high-gain circuit used in the **Knight 8 Watt "Little Giant" Amplifier** employs the latest metal tubes. Input is arranged for a high-impedance magnetic phonograph pickup as well as for the crystal microphone supplied. Separate volume controls are provided for microphone and phonograph permitting blending and mixing action. Tone Control is also included to accentuate bass or treble as desired. The amplifier develops an essentially flat frequency response from 80 to 10,000 cycles. Gain is 110 db. for crystal microphone and 58 db. for phonograph. Field current for the dynamic speaker is supplied by the amplifier; an extra speaker jack permits the use of an additional speaker if desired. The versatile design of the **Knight 8 Watt System** makes it suitable for many sound applications.

SYSTEM COMPLETE

The **Knight 8 Watt High-Gain Sound System** includes the Little Giant Amplifier described on next page, a high grade full 8½ inch dynamic speaker with 25 foot 4 conductor cable and plug attached, an Astatic Dual-diaphragm Crystal microphone with 25 foot cable and plug, attractive microphone banquet stand, a kit of Raytheon metal tubes, and complete operating instructions. Draws only 64 watts from 110 Volt, 60 cycle, A.C. line. Shpg. wt., 39 lbs.

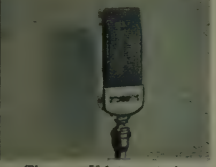
A12012.
List Price, $80.00.
YOUR PRICE..... $39.95
(For Portable Phonograph, see Page 81.)

SOUND SYSTEMS



Polarized receptacles for microphone and speaker assure proper, instant hookup. Impossible to make incorrect connections. Saves time; prevents trouble.

A full 8½ inch electro-dynamic speaker of superior quality is coupled with the 8 Watt System for rich, wide fidelity tone with negligible distortion.



The new Velotron static-velocity microphone—noted for extreme sensitivity, wide frequency response, imperviousness to atmospheric conditions, etc. (See page 86.)

VELOTRON SYSTEM

This new **Knight 8 Watt High-Gain Sound System** is essentially the same as that described on the previous page, but it is furnished with the fine new Velotron microphone. Has somewhat more sensitivity and better frequency range than the Crystal system. This complete 8 Watt System includes: 1—Knight "Little Giant" 8 Watt High-Gain amplifier; 1—Velotron static-velocity microphone with 25 foot cable and polarized plug; 1—de luxe adjustable banquet stand; 1—**Knight** 8½ inch dynamic speaker with 25 foot cable and polarized plug; kit of Raytheon metal tubes and complete operating instructions. For 110 Volts, 60 cycles, A.C. Shpg. wt., 39 lbs.
A12013. List price, $73.50. **YOUR PRICE** **$36.75**

The Magnetic Velocity microphone — designed for studio quality reproduction — ideal for orchestra and solo use and for general high quality sound use. Offers the very finest fidelity on both voice and music.

VELOCITY SYSTEM

The **Knight 8 Watt High-Gain Sound System** is also available with a high-grade Velocity microphone. Ideal for use by musicians, orchestras, singers, dramatic artists, churches, orators, etc. Complete system: 1—**Knight** "Little Giant" 8 Watt High-Gain Amplifier; 1—Magnetic-Velocity microphone with 20 foot cable and polarized plug; 1—de luxe adjustable banquet stand; 1—**Knight** 8½ inch dynamic speaker with 25 foot cable and polarized plug; kit of Raytheon metal tubes and complete operating instructions. For 110 Volts, 60 cycles, A.C. Shpg. wt., 39 lbs.
A12014. List Price, $89.50 **YOUR PRICE...** **$44.45**
(See page 82 for portable carrying case.)

8 WATT AMPLIFIER ONLY

The **Knight 8 Watt High-Gain Amplifier** is available separately either as an ideal replacement for old type amplifiers or for use as the heart of practically any low-powered sound system. Compactly designed; measures 6"x 7¾"x12". Weighs only 8½ lbs. Has built-in mike and phono mixer. Develops full eight watts using 1—6J7, 1—6N7 and 1—6L6 tubes with 5Z4 rectifier. Has an excellent gain of 110 db. for microphone, and 58 db. for phono with essentially flat frequency response from 80 to 10,000 cycles. Supplies field current for one 1000 ohm dynamic speaker; output is from plate of 6L6. Has universal input for crystal, Velotron or high-impedance velocity microphones and high impedance magnetic pickup. For 110 volts, 60 cycles, A.C. Draws only 64 watts. Shpg. wt., 18 lbs.
A12011. 8 Watt High-Gain Amplifier only. List. $30.00.
YOUR PRICE.....$14.95
A12071. Kit of Raytheon Metal Tubes.....$4.03

KNIGHT 8 WATT AMPLIFIER ONLY.

$14.95

The new **Knight 8 Watt Amplifier** is up-to-the-minute in appearance as well as design. Built into a beautiful new brown wrinkle finished metal case. Has striking chrome and brown control panel with attractive brown bakelite pointer knobs to match.

8 WATT *High-Gain* PORTABLE SOUND SYSTEM

The **Knight 8 Watt High-Gain Sound System** with Crystal Microphone is also offered in a modern low-cost portable system. Designed for coverage of small audiences. Ideal for musical organizations, lecturers, demonstrators, side-shows, etc. Uses the new Astatic Dual-Diaphragm Crystal Microphone for quiet performance and clear reproduction of both voice and music. Input is provided for the crystal microphone supplied and for a high impedance phonograph. Individual volume controls are provided for microphone and phonograph, for mixing and blending voice and music. Tone control permits compensation for varying acoustical conditions. The use of the latest powerful metal tubes in the high-gain circuit of the amplifier assures full 8 watts output practically free from distortion. The new 6L6 Electron Beam-Power Tube plays an important part in developing this flawless power. A large 8½ inch Knight Dynamic speaker handles full volume without blasting. All components are housed in a single compact carrying case, 8½"x12¾"x16¾". Weight complete is only 42 lbs. The new **Knight 8 Watt High-Gain Sound System** is one of the most versatile portable systems ever designed. For value, completeness, ready portability, ease of operation and highest tonal fidelity, it is absolutely unrivalled even by 8 watt systems at much higher prices.

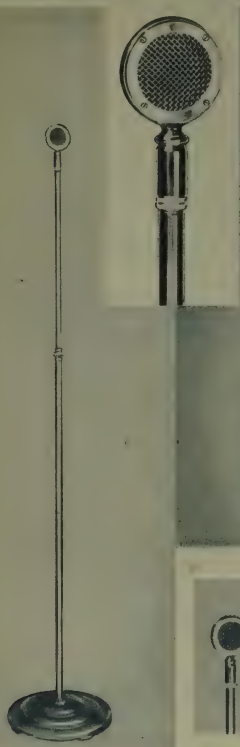
COMPLETE 8 WATT HIGH-GAIN SYSTEM

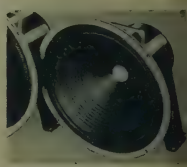
The complete **Knight 8 Watt High-Gain Portable System** includes: 1—Knight 8 Watt high-gain amplifier; 1—Astatic Dual-diaphragm crystal microphone mounted on an attractive banquet stand with 25 foot cable and polarized plug; 1—8½ inch Knight dynamic speaker with 25 foot cable and polarized plug. Entirely self-contained in a single sturdy carrying case. Complete with tubes and instructions. For operation on 110 volts, 60 cycles, A.C. A wonderful value in a complete, compact full 8 watt portable system.
A12015. List, $91.50.
YOUR PRICE COMPLETE..... **$45.75**

(The above system can also be had with a Knight floor stand instead of banquet stand at no extra cost. For suitable portable phonograph, see our attractive selection on page 81. Make your total order come to $75 or more and you can buy your Knight Sound Equipment on Easy Terms. See page 65 for details.)

Knight 18 WATT *High-Gain* SOUND

NEVER BEFORE SO MUCH P.A. VALUE!





SUITABLE FOR:

- ORCHESTRAS
- DANCE HALLS
- NIGHT CLUBS
- TAVERNS
- BUS TERMINALS
- AUDITION STUDIOS
- POLITICAL RALLIES
- SCHOOLS
- CHURCHES
- HALLS AND AUDITORIUMS
- AUCTION ROOMS
- SIDE SHOWS
- CARNIVALS
- EXHIBIT HALLS
- CLUBS AND LODGES
- NEWSPAPERS
- MORTICIANS
- CALL SYSTEMS

The Knight 18 Watt High-Gain Sound Systems are manufactured under license arrangements with Electrical Research Products, Inc., subsidiary of Western Electric Co., Inc., Radio Corporation of America.

Each system is set up and tested before shipment.

Has universal input for any high-impedance microphone. Available with the latest Crystal, Velotron, Velocity, or Sound Cell microphones. Offers wide choice.

Individual volume controls are provided for electronically mixing mike and phono. Tone Control is also included. All controls are easily accessible on front base.

Two giant 12 inch electro dynamic speakers are couple with the 18 Watt System fo rich, wide fidelity range.

18 WATT CRYSTAL MIKE SYSTEM

An exceptional value in a new low-cost complete **Knight 18 Watt Sound System** using the latest dual-diaphragm type crystal microphone. This new type of crystal microphone has an exceptionally fine frequency response; greatly reduces feed-back and will pick up sound from any angle. In addition, it has the advantage of being extremely compact and inconspicuous—actually the size of an ordinary watch. (An additional high-impedance microphone may be added, if desired, for special effects.) The high-gain amplifier of this 18 Watt System develops full 18 watts output using the crystal microphone. Four high-gain stages are employed using the latest type tubes: 1—6C6, 2—6A6, 2—6B5, 1—5Z3. The two 6B5 tubes used as push-pull power amplifiers assure greater gain (115 db.) with less distortion than any other equivalent tubes. Frequency response is essentially flat from 80 to 10,000 C.P.S. Hum level is minus 25 db. These splendid characteristics assure high output coupled with excellent fidelity.

BUILT-IN ELECTRONIC MIXER CIRCUIT

Input is provided in the **Knight 18 Watt System** for a high-impedance phonograph pickup. Individual volume controls for microphone and phonograph permit blending and fading as desired. "Mixing" action is electronically controlled. Tone Control is provided to give bass or treble emphasis and to compensate for varying acoustical conditions. All controls are readily accessible on the modern chrome and brown operating panel. The giant **Knight** full 12 inch Auditorium electro-dynamic speakers are supplied with the **Knight 18 Watt Sound System.** They adequately handle the full output of the amplifier, giving wide-range faithful reproduction. The amplifier supplies all field current for operation of these speakers. (See next page for further details.)

COMPLETE 18 WATT CRYSTAL MIKE SYSTEM

The complete **Knight 18 Watt Crystal Mike Sound System** includes: 1—**Knight** 18 Watt High-Gain Amplifier; 1—Astatic dual diaphragm Crystal microphone; 25 feet of special crystal microphone cable and polarized plug; 1—standard **Knight** microphone floor stand with sure-grip clutch (adjustable from 46 to 70 inches); 2—12 inch **Knight** dynamic speakers with 30 foot cables and polarized plugs; complete Raytheon tube kit, and full instructions. For operation on 110 Volts, 60 cycles A.C. Shpg. wt., 55 lbs.

A12019. List, $127.50.
CASH PRICE..... **$63.75**

(Note: See page 81 for Portable Phonograph. See page 82 for Portable Case and Baffles. Make your order come to $75 or more and buy on our Easy Terms Plan.)

A12019.
18 WATT CRYSTAL MIKE SYSTEM COMPLETE....

$63.75
CASH PRICE

EASY TERMS

You can now buy the **Knight 18 Watt Crystal Mike Sound System** on our attractive Time Payment Plan by bringing your P.A. order up to $75 total or more. (See Page 65 for details.) You may add a suitable portable phonograph such as A10080 or A10081 on page 81; or speaker baffles such as A10282 on page 82, or an additional crystal microphone and stand. This will bring your total P.A. order up to or over the minimum time payment requirements. Take advantage of the new **ALLIED Time Payment Plan**—use the **Knight Sound Equipment** you need now, and pay for it conveniently.

SYSTEMS *with outstanding* PRACTICAL NEW FEATURES!

- Universal Input for Crystal, Velotron, Velocity and Sound Cell Microphones
- Built-In Pre-Amp.
- Phono Input
- Tone Control
- Dual Mike Switch
- 12" Speakers
- Electronic Mixer
- Universal Output
- Polarized Connections
- Full 18 Watts
- Modern Design

VELOTRON SYSTEM

The **Knight 18 Watt High-Gain Sound System,** exactly as described, but with new static-velocity Velotron Microphone as illustrated above. Complete system includes: **Knight** 18 Watt High-Gain Amplifier; Velotron microphone with 25 foot cable and plug; **Knight** Floor stand; 2—12 inch **Knight** dynamic speakers with 30 foot cables and plugs; Raytheon tubes and complete instructions. For 110 Volts, 60 cycles A.C.

A12020.
List, $120.00.
YOUR CASH PRICE....
$59.95

VELOCITY SYSTEM

The **Knight 18 Watt High-Gain Sound System** is offered with a high grade Velocity Microphone to meet the growing demand for ultra high quality wide - range amplification. Suitable for use by musicians, singers, dramatic artists, churches, orators, etc. The system comes complete with all components as described at left but with new Velocity Microphone as illustrated above. For 110 Volts, 60 cycles A.C.

A12021.
List, $137.50.
YOUR CASH PRICE....
$68.50

SOUND CELL SYSTEM

The **Knight 18 Watt High - Gain Sound System** is also available with a genuine Brush Sound Cell Microphone (illustrated immediately above). This microphone features 360° pick-up, exceptionally small size and unusually wide frequency response. Especially suited for orchestra pickup and choral work. System comes complete with all components as shown under Velotron System at left, but with Brush Sound Cell Microphone.

A12022.
List, $152.50.
YOUR CASH PRICE....
$76.50

(To take advantage of our Time Payment Plan, bring your P.A. order up to $75 or more by adding portable phono, baffles or additional mike and stand. For complete details, see Page 65.)

EXTENDED FREQUENCY RANGE

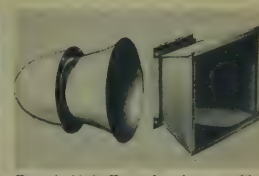
Brilliant engineering has made the **Knight 18 Watt Sound Systems** marvels of efficiency, resulting in exceptional high gain and remarkable wide-range fidelity. Frequency response is essentially flat from 80 to 10,000 C.P.S. The four stages utilized in the amplifier develop the exceptionally high gain of 115 db. At full rated output, distortion is only 7%. Hum level is minus 25 db. These splendid characteristics assure high output coupled with excellent fidelity. The **Knight 18 Watt Sound Systems** are ideal both for sound reinforcement as well as for powerful public address coverage.

GIANT 12" SPEAKERS

The **Knight 18 Watt High-Gain Sound Systems** use 2 giant **Knight** full 12 inch Auditorium Dynamic Speakers which adequately handle the output of the amplifier, giving wide-range faithful reproduction. These popular speakers feature heavy pressed-steel construction and rugged design for heavy-duty use. Equipped with carrying handles. The amplifier supplies all field current for the operation of these speakers. Each speaker is equipped with 30 foot cable and plug attached. (For suitable speaker baffles, which will give even wider coverage, see our complete listing on page 82.)

The **Knight 18 Watt System** has provision for the use of an additional microphone. Has switch arrangement which allows either microphone to be cut in at will. Both microphones need not be alike.

Has plug-in input for high impedance magnetic phono pickup. May be hooked up instantly. See page 81 for suitable portable phonograph.



For suitable baffles and projectors, which will give even wider coverage to the **Knight 18 Watt Sound Systems,** see our listing on page 82.

POWERFUL HIGH-GAIN CIRCUIT

The High-Gain Amplifier incorporated in the **Knight 18 Watt Sound Systems** develops a full 18 watts output, with admirable fidelity, free from distortion. Four high-gain stages are employed, using the latest type tubes as follows: 1—6C6 as crystal mike preamplifier; 1—6A6 as electronic mixer and voltage amplifier; 1—6A6 as phase inverter and driver; 2—6B5 as push-pull power amplifiers; with 5Z3 as rectifier. The two 6B5 tubes used as push-pull power amplifiers assure greater gain with less distortion than any other equivalent tubes. High grade components, advanced design and skillful building assure highest quality and full value. These new **Knight 18 Watt Sound Systems** should not be confused with systems claiming the same performance but which are actually of inferior and shoddy character.

18 WATT HIGH-GAIN AMPLIFIER ONLY

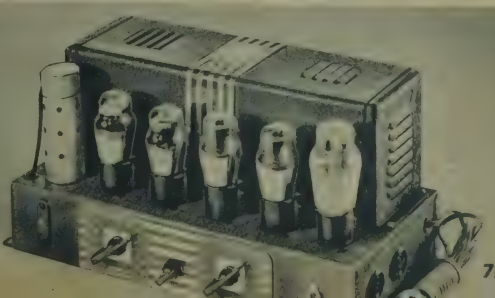
The **Knight 18 Watt High-Gain Amplifier** is available separately as an ideal nucleus for sound systems using low level microphones. Has universal input for any high impedance microphone and phono. 4 high gain stages develop a remarkable gain of 115 db. permitting the direct use of high impedance microphones without requiring the use of a pre-amplifier. The frequency response is essentially flat from 80 to 10,000 cycles. The **Knight 18 Watt High-Gain Amplifier** has individual volume controls for both microphone and phonograph, permitting them to be "faded" or "mixed" as desired. Provision is made for the use of two microphones, either of which may be used at will. Tone Control is built in for bass or treble emphasis. Controls are conveniently located on front base of amplifier. Has polarized receptacles for mike and speakers and twin jack for phono input. Has built-in field excitation for 2—4000 ohm dynamic speakers; output is universal, tapped at 4, 8, 16 and 500 ohms. Size: 17⅜"x7⅞"x8⅜". Shpg. wt., 25 lbs. For 110 Volts, 60 cycles A.C.

A12018. Knight 18 Watt High-Gain Amplifier, less tubes. List, $57.50. **CASH PRICE.....** **$27.95**

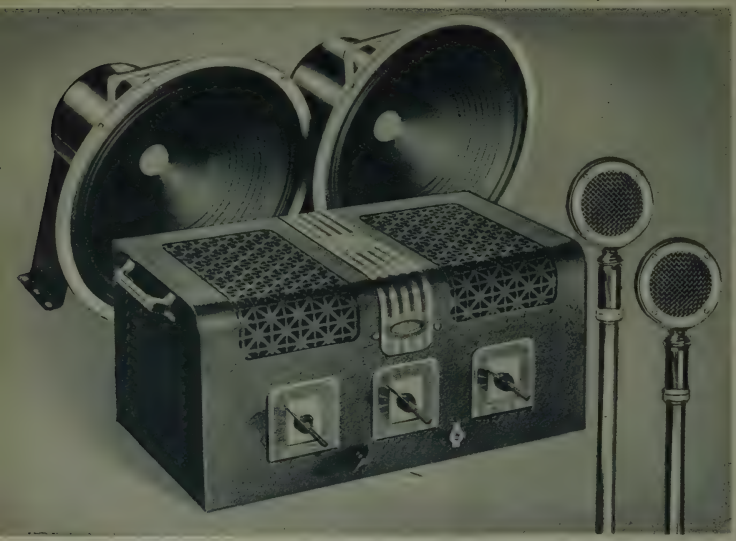
A12072. Raytheon Tube Kit. NET.....$5.29

BUILT-IN ELECTRONIC MIXER

Individual volume controls are provided for both microphone and phonograph, permitting blending or fading as desired. "Mixing" action is electronically controlled in the 6A6 tube. Provision is also made to permit the use of an additional microphone, with a special selector switch arrangement which allows either microphone to be cut in at will. This feature adds real versatility to the system, making it possible to achieve special effects such as off-stage announcements, solo work with or without orchestration, etc. Tone Control is provided to give bass or treble emphasis and to compensate for varying acoustical conditions. All controls are conveniently located on front base of amplifier. Polarized receptacles are provided for microphone and speakers. Twin-jack accommodates phonograph input. Note the modern attractive design of the new **Knight 18 Watt Amplifier.** The metal case is finished in attractive brown-wrinkle. Control panel is chrome and brown with harmonizing brown bar-knobs.



Knight 25 WATT *High Gain* SOUND SYSTEMS



A12026. COMPLETE 25 WATT KNIGHT HIGH-GAIN CRYSTAL SYSTEM. CASH PRICE.....

$93.85

You can now buy the new Knight 25 Watt High-Gain Sound Systems on our convenient Time Payment Plan. For complete details and Easy Terms, read page 65. It will pay you to buy Knight Sound Equipment because you can earn and profit while you are paying for it. You will find our Time Payment Terms extremely attractive.

The Knight 25 Watt High-Gain Sound Systems are manufactured under license arrangements with Electrical Research Products, Inc., Subsidiary of Western Electric Co., Inc., Radio Corporation of America.

UNIVERSAL MICROPHONE INPUT

An entirely new High-Gain Sound System of intermediate power, styled along the most modern lines. Includes many exclusive new features. Universal input is provided for the use of two of any type high-impedance microphones. We offer below a choice of systems using either dual-diaphragm Crystal, Velotron, Velocity or Sound Cell Microphones. Input is also arranged for a high-impedance magnetic phono pickup. Both microphones may be used simultaneously and "mixed" or blended as desired. An exclusive new feature is the output indicator which shows visually the output level at which the system is operating. The use of the new 6L6 Electron Beam Power tubes assures full 25 watts output with absolute minimum of distortion. The new **Knight 25 Watt High-Gain Sound System** is suitable for use by orchestras, churches, morticians, schools, clubs and lodges, night clubs and carnivals or wherever intermediate power is desired.

4 HIGH-GAIN STAGES—3 CHANNEL MIXER

The amplifier used in the **Knight 25 Watt System** features four high-gain stages using the following metal tubes: 2—6J7 as mike preamplifiers; 2—6N7 as voltage amplifiers and Electronic mixers; 1—6N7 as driver; 2—6L6 as push-pull Beam Power output stage; 1—6X5 as output meter tube. An 83 tube is rectifier. This powerful circuit has a gain of 118 db. on microphone and 65 db. for phono. Frequency response is essentially flat from 80 to 10,000 C.P.S. A three-channel mixer is incorporated, which includes a separate volume control for each microphone and for phonograph. "Mixing" is electronically controlled, permitting any degree of blending as desired. Each control functions independently and has no effect on the others. Tone Control is provided to compensate for varying acoustical conditions. Two of the latest 12 inch **Knight** Auditorium Electro-dynamic speakers handle the full output without distortion and with excellent tonal fidelity. All receptacles for microphones and speakers are polarized. Amplifier is fused

COMPLETE 25 WATT HIGH-GAIN SYSTEMS

The **Knight 25 Watt High-Gain Sound System** is offered complete as illustrated above with two Astatic Dual-diaphragm Crystal Microphones. Includes: 1—**Knight** 25 Watt High-Gain Amplifier; 2—**Knight** 12 inch dynamic speakers with 30 foot cables and polarized plugs; 2—Astatic Crystal Microphones with 25 foot cables and polarized plugs; 2—**Knight** microphone floor stands; Complete Raytheon tube kit and full instructions. For 110 Volts, 60 cycles, A.C. Shpg. wt., 71 lbs.

A12026. List, $187.50. **CASH PRICE.....$93.85**

A12027. Same as above but with 2—Velotron Microphones instead of Crystal Microphones. Complete 25 Watt System. List, $172.50. **CASH PRICE.....$86.75**

A12028. Same as above but complete with 2—Velocity Microphones. List, $207.50. **CASH PRICE.....$102.85**

A12029. Same as above but with 2—Brush Sound Cell Microphones. List, $237.50. **CASH PRICE.....$118.50**

SEE PAGE 65 FOR EASY PAYMENT PLAN.

AMPLIFIER ONLY

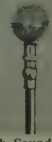
The high-gain amplifier used in the **Knight 25 Watt System** is offered separately. Features: Output Indicator; Universal Mike Input; Phono Input; 4 High-Gain Stages; 3 Channel Mixer; Metal Tubes, Polarized Receptacles, etc. Size: 17"x12"x 8½". Shpg. wt., 31 lbs. For 110 Volts, 60 cycles A.C. Less Tubes.

A12025. NET.$36.45

A12073. Raytheon tube Kit. **NET.$8.20**

The new static-velocity Velotron Microphone — noted for wide range fidelity and exceptional sensitivity.

Latest Velocity Microphone — especially suited for high quality orchestral and choral work. Noted for real fidelity.



Brush Sound Cell Microphone—full 360° pick-up—develops the finest broadcast studio quality tone.

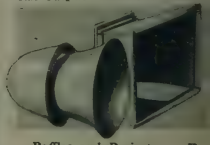
with EXCLUSIVE NEW FEATURES

New Output Indicator. Exclusive in **Knight Amplifiers.** Has easy-to-read calibrated scale which indicates power output and makes it possible to maintain readily any power level desired. Reference chart shows calibrated output in watts.

The **Knight 25 Watt System** provides for the simultaneous use of any two high-impedance microphones. We offer a choice of systems using Crystal, Velotron, Velocity or Sound Cell Microphones.

3 Channel Mixer—has separate volume controls for each microphone and for phono—permitting electronic "mixing" of all three. Each control functions independently.

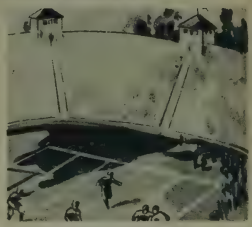
Efficient new metal tubes are used to the fullest advantage in the new **Knight 25 Watt High-Gain Sound Systems.** Uses two of the powerful new 6L6 Electron Beam Power tubes for full output without distortion.



Baffles and Projectors. For even better sound coverage, indoor or outdoors (when speakers are not mounted on large flat baffles) we recommend the use of the projectors and directional baffles shown on page 82. Weatherproof outdoor types as well as suitable indoor baffles and projectors are presented at very attractive prices. **ALLIED** Sound components assure high quality reproduction and dependable consistant performance.

GIANT Low Cost

Knight 60 WATT SOUND SYSTEMS for the Largest Installations



New giant high-gain Sound Systems designed for complete coverage of huge crowds. Particularly recommended for outdoor use in large athletic fields, in public parks, in music bandshells, at race tracks, circuses, etc. New Universal Input permits the simultaneous use of 2 high impedance microphones such as: diaphragm type Crystal, static-velocity Velotron, Velocity, or Sound Cell crystal types, as well as a high impedance magnetic phonograph. Complete Giant Sound Systems are listed below using these high-quality microphones. The **Knight 60 Watt High-Gain Amplifier** used develops full output with any of the microphones listed. 4 high gain stages employ: 2—6J7 as microphone preamplifiers, 2—6N7 as electronic mixers and voltage amplifiers, 2—6C5 as drivers, 2—6L6 as Election Beam-power output tubes, 1—5Z4 as fixed bias tube, 1—6X5 as Volume Indicator tube, 1—83 as rectifier. This modern tube combination assures a gain of 122 db. for microphones and 65 db. for phonograph. Frequency response is essentially flat from 80 to 10,000 cycles. Separate volume controls are incorporated for each microphone as well as for phono, permitting any desired degree of "blending"; mixing is accomplished electronically. A tone control is provided to compensate for varying acoustical conditions. All controls, including "on-off" switch are conveniently grouped on the front panel for ready accessibility. The **Knight 60 Watt High-Gain Amplifier** is attractively modern in design; built into a ventilated steel cabinet finished in brown wrinkle, with harmonious chromium and brown trim. Knobs are of matching brown bakelite.

WITH OUTPUT METER

An exclusive feature of **Knight 60 Watt Giant Sound Systems** is the calibrated output meter, which permits accurate maintenance of any desired volume level. This is a practical necessity where the amplifier is located at a distance from the microphones or speakers. Four new type permanent magnet dynamic speakers are supplied with each **Knight 60 Watt Giant Sound System.** They employ the new magnetic alloy in their field structures to assure excellent power handling ability with true tonal fidelity. (Additional speakers may be added as desired.) Each speaker is equipped with a line transformer to properly match the 500 ohm output of the amplifier, and with 50 feet of connecting cable, with polarized plug attached. Polarized receptacles are provided on the amplifier to assure proper and instantaneous connection of microphones and speakers.

COMPLETELY ASSEMBLED

Knight 60 Watt Giant Sound Systems are completely assembled and tested in our laboratories before shipment. This assures absolute trouble-free installation and operation. All components are carefully matched to assure dependable operation and superb reproduction. With all these features, **Knight 60 Watt Giant Sound Systems** are still low in cost and economical in operation. They draw only 275 watts from a 110 volt 60 cycle A.C. line. The complete systems as listed below include: 1—**Knight** 60 watt High Gain Amplifier; choice of any 2—Astatic dual-diaphragm Crystal, Velotron, Velocity or Brush Sound Cell microphones, each equipped with 25 ft. of cable and polarized plugs; 2—**Knight** adjustable microphone stands; 4—new P.M. dynamic speakers with line matching transformers and 50 ft. cables and plugs; Raytheon tube kit and complete operating instructions. For 110 volt 60 cycle A.C. operation.

A12061. Complete Knight 60 Watt Crystal Microphone Sound System. Your Cash Price.....

$134.50

You can now buy the new Knight 60 Watt Sound System on our convenient Time Payment Plan. See Page 65 for complete details and Easy Terms chart. Put Knight Sound Equipment to work earning money for you—and pay for it while it brings you fine performance big profits.

FEATURES:

- UNIVERSAL MIKE INPUT
- NEW OUTPUT INDICATOR
- 3 CHANNEL MIXER
- 6L6 BEAM POWER TUBES
- PHONOGRAPH INPUT
- WITH TONE CONTROL
- POLARIZED CONNECTIONS
- MODERN DESIGN

The Knight 60 Watt Sound Systems are manufactured under license arrangements with Electrical Research Products, Inc., Subsidiary of Western Electric Co., Inc., Radio Corporation of America.

Knight 60 Watt Giant Sound Systems are available in a choice of several of the most popular types of high quality microphones. The Astatic dual-diaphragm Crystal microphone is widely used for general public-address work; features non-directional pickup and good quality. The new Velotron microphone has a high degree of sensitivity, coupled with excellent frequency response; may be used up to 500 ft. from amplifier. The Velocity microphone is particularly suited for studio and orchestral work. The Brush Sound Cell crystal microphone features 360° pickup with truly excellent fidelity; fine for choral work, plays, etc.

COMPLETE 60 WATT SOUND SYSTEMS

The powerful **Knight 60 Watt Giant Sound System** is offered complete, with 2—Astatic dual-diaphragm Crystal microphones with 25 ft. cables and polarized plugs; 2—**Knight** Microphone Floor stands; 1—**Knight** 60 watt High Gain Amplifier; 4—new type P.M. Dynamic Speakers, each with 50 ft. cable and polarized plug; Raytheon tube kit and complete instructions. For 110 volts, 60 cycles A.C. Shpg. wt., 100 lbs.

A12061. List, $270.00.
CASH PRICE.....$134.50

A12062. Complete system as above, but with 2—Velotron static-velocity microphones. List, $250.00.
CASH PRICE.....$125.00

A12064. Complete system as above, but with 2—Brush Sound Cell microphones. List, $315.00.
CASH PRICE.....$157.50

A12063. Complete Knight 60 Watt Giant Sound System as described at left, but with 2—high grade Velocity microphones. List, $285.00.
CASH PRICE.....$142.50

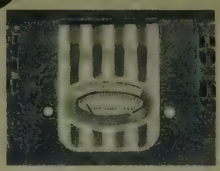
A12060. Amplifier only. Knight 60 Watt Giant Amplifier, less all accessories, for use as replacement in high grade sound systems, or as the nucleus for a Giant Power sound system using other accessories. For use on 110 volts, 60 cycles A.C. Less tubes. List, $100.00.
CASH PRICE.....$49.95

A12075. Raytheon Tube Kit. NET $9.61

Suitable baffles and sound projectors, for both indoor and outdoor use are available. See page 82 for complete description and listing.

SEE PAGE 65 FOR CONVENIENT TIME PAYMENT PLAN.

Powerful DUAL-MIKE



USES 2 MIKES AT ONCE

The **Knight 35 Watt Amplifier** permits the simultaneous use of any two high-impedance microphones such as diaphragm-type Crystal, Velotron, Velocity or Sound Cell types. All of these types are offered below on this page and the next in complete high-grade 35 Watt Sound Systems. You can have your choice of any of this fine mike equipment

OUTPUT INDICATOR

An exclusive new **Knight** feature! Has easy-to-read calibrated scale which indicates power output and makes it possible to readily maintain any power level desired. No more guessing; you always know at what volume level the amplifier is operating. Reference chart furnished shows calibrated output in watts. An unusual new extra value feature!

3 CHANNEL MIXER

Separate volume controls for each microphone and for phono are provided in the **Knight 35 Watt System.** Mixing of all three (two mikes and one phono) is accomplished electronically within the "mixing" tubes. Each control functions independently and has no effect on the others.

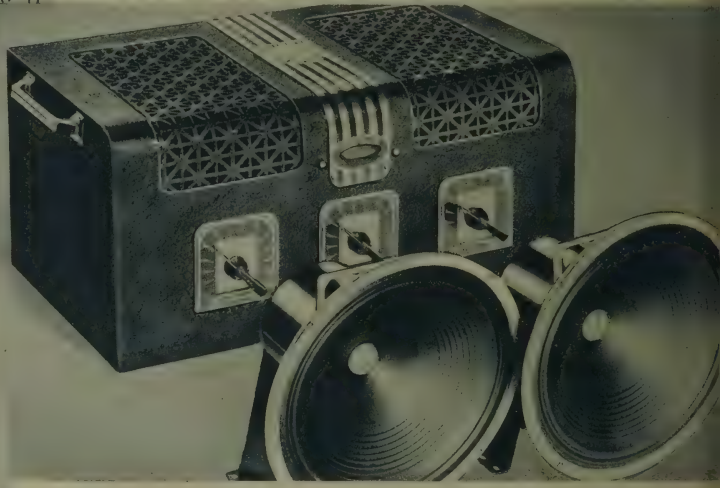
FEATURES:

- 2 Universal Mike Inputs
- Output Indicator
- Electronic Mixer
- Phono Input
- 6L6 Beam Power
- Universal Output
- Metal Tubes
- Polarized Connections
- Tone Control
- Full 35 Watts
- Modern Design

COMPLETE 35 WATT CRYSTAL SYSTEM.....

$99.50 Cash Price

SEE PAGE 65 FOR TIME PAYMENT PLAN.



Knight 35 WATT *3 Channel*

35 WATT SYSTEM WITH 2 CRYSTAL MICROPHONES

A powerful new 35 Watt High-Gain Sound System delivering a giant output of 35 watts with wide-range fidelity at a remarkably low price. Uses two high-grade new type dual-diaphragm Astatic Crystal Microphones. Especially developed for excellent service where large coverage and fine tone quality are desired. Suitable for use by orchestras, for church and school, for auditorium and hall platform use; for theatre stage presentation; for outdoor pageants, field days, etc. Also recommended for dance halls, convention halls, skating rinks, athletic fields, etc. The **Knight High-Gain Sound System** with two Crystal Microphones develops full 35 watts output. Has four high gain stages using 2—6J7, 2—6N7, 1—6C5, 2—6L6, and 1—6X5 metal tubes, and 1—83. The frequency response is essentially flat from 50 to 10,000 C.P.S. Hum level is minus 25 db. These fine characteristics assure wide range tonal fidelity and large output without distortion. Input is provided for a high impedance phono pickup as well as for the two Crystal Microphones. Individual volume controls permit fading and blending at will. Mixing action is electronically controlled. Tone Control is provided to compensate for varying acoustical conditions. The two giant 12 inch **Knight** Electro-dynamic speakers supplied with the system handle full output, rendering wide-range tonal fidelity. The amplifier supplies all field current for the speakers.

DUAL CRYSTAL MIKES

The built-in dual channel pre-amplifier incorporated in the **Knight 35 Watt High-Gain Amplifier** permits the direct use of two of the new dual-diaphragm type Astatic Crystal microphones. The three-channel electronic mixer allows blending or fading of both microphones as desired. The use of the two crystal microphones permits high quality wider-range pickup; also allows versatile pickup of voice or music, strengthening and reinforcing the softer musical passages and instruments. The two Astatic Crystal Microphones supplied with the system are of the finest quality available. They are non-directional and pick up sound from any angle with unusually fine sensitivity.

WITH OUTPUT INDICATOR

The exclusive new Output Indicator used in the **Knight 35 Watt High-Gain System** enables you to see visually at all times the exact volume level at which the system is operating. Giant 35 watts output is consistently assured by the powerful circuit using 2—6L6's as push-pull Beam Power Output Stage. The **Knight 35 Watt High-Gain System** is built along entirely modern lines, incorporating exclusive new features in both design and construction. The amplifier is entirely housed in a brown wrinkle-finished steel case with distinctive roll-top; attractively set off by curved grill-work, handsome chromium and brown dial plates and output indicator strip. Truly professional in appearance and performance. (For further descriptive details, see next page.)

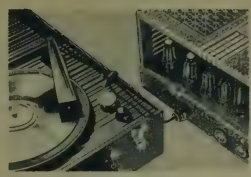
COMPLETE CRYSTAL SYSTEM

The complete **Knight 35 Watt High-Gain Crystal Microphone System** includes: 1—**Knight** 35 Watt Amplifier; 2—Astatic Crystal Microphones with 25 foot cables and polarized plugs; 2—**Knight** Adjustable Microphone Floor Stands; 2—12 inch **Knight** Dynamic Speakers with 30 foot cables and polarized plugs; complete Raytheon tube kit and instructions. Shpg. wt., 73 lbs. For 110 volts, 60 cycles, AC.

A12036. Complete 35 Watt High-Gain Crystal Microphone System.
List. $200.00. **CASH PRICE.....$99.50**

(See Page 82 for Portable Cases. FOR COMPLETE DETAILS OF OUR ATTRACTIVE P.A. TIME PAYMENT PLAN, SEE PAGE 65.)

All-Purpose SOUND SYSTEMS



EASY TO CONNECT

Note the ready accessibility of all connections in the **Knight 35 Watt Amplifier.** It can be set up for operation in a few minutes. Polarized receptacles and plugs are provided for microphones, phonograph and speakers—assuring absolutely proper and instantaneous hook-up always. The **Knight 35 Watt Amplifier** is the last word in P. A. convenience.

CHOICE OF MIKES

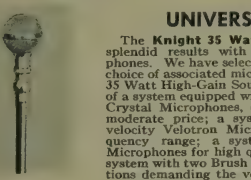
The **Knight 35 Watt High-Gain Amplifier** will operate with any type high-impedance microphones. We offer a choice of dual-diaphragm Crystal, static-velocity Velotron, Velocity, and Brush Sound Cell Microphones. See below for complete system listings offering choice. Each **Knight 35 Watt System** offers you maximum performance and maximum quality. You get more value at **ALLIED.**

PHONO INPUT

Provision is made for plugging in high-impedance phonograph pickup. Separate volume control for phonograph permits its use individually or with microphones, as desired. For suitable moderately-priced high quality Portable Phonographs, see our selection offered on Page 81. **Knight 35 Watt Systems** with matched components assure the very finest in high quality wide-range sound performance.

BAFFLES AND PROJECTORS

For even better sound coverage, indoors or outdoors (where speakers are not mounted on large, flat baffles) we suggest the use of the projectors and directional baffles shown on Page 82. Weatherproof outdoor types as well as indoor baffles and projectors are shown at attractive prices. Use **Knight** quality sound components throughout for dependability.



VELOTRON SYSTEM

The **Knight 35 Watt Sound System** is offered complete as described with 2 new-type static-velocity Velotron Microphones as illustrated immediately above. These microphones are noted for their excellent fidelity range for both voice and music. System comes complete as described on page 74 but with 2 Velotron Microphones instead of Crystal Microphones.

A12037. List, $185.00.
CASH PRICE.....

$92.50

VELOCITY SYSTEM

The **Knight 35 Watt System** is offered also with two high-grade Velocity Microphones. Developed especially for applications demanding exceptionally faithful and true reproduction of both voice and music. System comes complete as described on page 74 but with 2-Velocity Microphones instead of Crystal Microphones.

A12038. List, $215.00.
CASH PRICE.....

$107.50

SOUND CELL SYSTEM

The **Knight 35 Watt Sound System** is further available with 2 genuine Brush Sound Cell Microphones. They feature 360° pickup, very small size and unusually wide frequency response. Excellent for high quality orchestral and choral reinforcement. System comes complete with everything necessary for immediate operation.

A12039. List, $250.00.
CASH PRICE.....

$124.50

You can now buy any of the above Knight 35 Watt Sound Systems on our convenient Time Payment Plan. See Page 65 for complete details. Pay for your Knight P. A. equipment as you use it!

UNIVERSAL MIKE INPUT

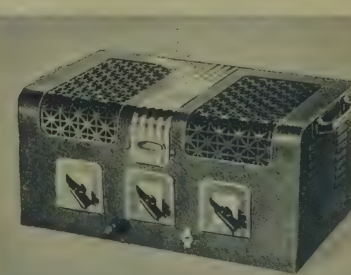
The **Knight 35 Watt High-Gain Amplifier** will give splendid results with any type high-impedance microphones. We have selected and offered on these pages a fine choice of associated microphone equipment in four complete 35 Watt High-Gain Sound Systems. You have your choice of a system equipped with two of the latest dual-diaphragm Crystal Microphones, offering splendid quality at a very moderate price; a system with two of the new static-velocity Velotron Microphones for somwehat wider frequency range; a system with two high-grade Velocity Microphones for high quality voice and music work; and a system with two Brush Sound Cell Microphones for applications demanding the very finest studio quality sound performance. This large choice of microphone equipment permits **Knight 35 Watt High-Gain Sound Systems** to meet practically any Public Address or Sound application where giant coverage and excellent tonal fidelity are required.

LARGE POWER—LOW COST

For installations requiring giant output with good tonal quality, at a reasonable price, the **Knight 35 Watt High-Gain Dual Microphone Systems** are the logical answer. They are remarkable for their simplicity and completeness, and for ease of installation and operation. Anyone can set these systems up for operation in just a few minutes. They have a multitude of applications, including use for large political meetings, for skating rinks, for dramatic performances, for large orchestras, for athletic fields, etc. Ideal large power, low cost sound systems which offer versatile high fidelity microphone reproduction and brilliant phonograph performance.

The new Knight 35 Watt High-Gain Sound Systems are manufactured under license arrangements with Electrical Research Products, Inc., subsidiary of Western Electric Co., Inc., Radio Corporation of America.

High Gain SOUND SYSTEMS



GIANT 35 WATTS OUTPUT

The newly-designed circuit of the amplifier used in the **Knight 35 Watt Sound Systems** has 4 high gain stages, using the latest metal tubes as follows: 2—6J7's as pre-amplifier tubes (one for each microphone); 2—6N7's as voltage amplifiers and electronic mixers; 1—6C5 as driver, with 2—6L6's as push-pull Beam Power output stage; an 83 tube is rectifier; 1—6X5 is output indicator tube. This powerful circuit develops a gain of 121 db. permitting the direct use of the two crystal microphones without external pre-amplification. Frequency response is exceptionally flat from 50 to 10,000 cycles. Distortion is less than 7% at full 35 watt output.

3 CHANNEL MIXER

A unique circuit is provided for complete easy control of the **Knight** 3 channel 35 Watt Amplifier. A separate volume control is provided for each crystal microphone and for phonograph. This arrangement permits full control of any degree of blending or "mixing" as desired. One or both microphones may be used for singing or speech against a soft musical background from phono or orchestra. Tone Control is also provided to accentuate bass or treble and to compensate for unfavorable acoustical conditions. This adequate control design makes the operation of the **Knight 35 Watt Systems** extremely simple and efficient, and adapts them for versatile application.

KNIGHT 35 WATT AMPLIFIER ONLY

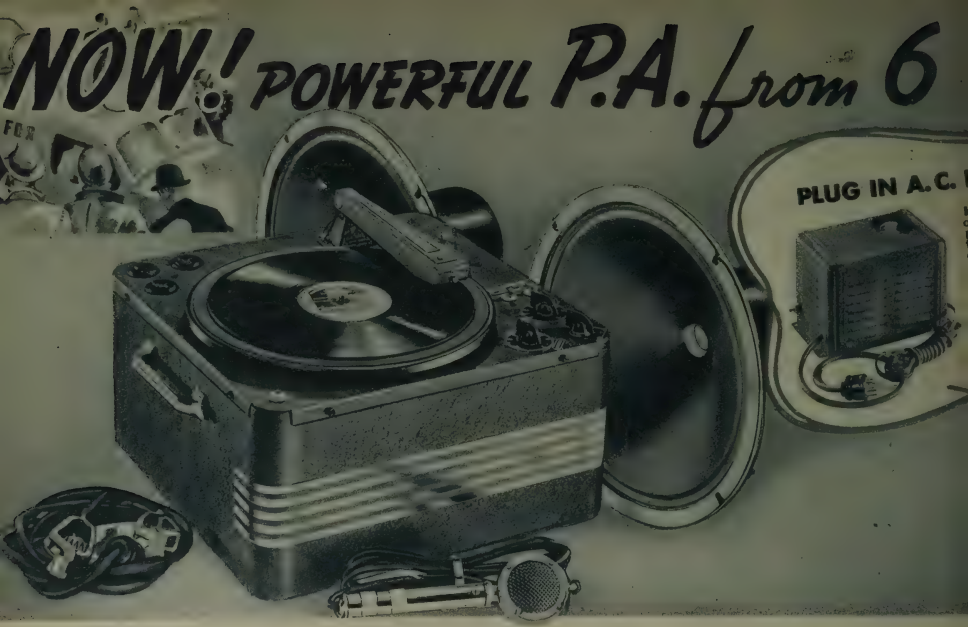
The **Knight 35 Watt High Gain Amplifier** is available separately for replacement in high grade sound systems or as initial equipment. Has input for two high impedance microphones, and phonograph. Four high gain stages develop a gain of 121 db. permitting the direct use of low-level microphones without external pre-amplification. Uses 2—6J7, 2—6N7, 1—6C5, 2—6L6, 1—6X5 metal tubes, 1—83 rectifier. The amplifier has an exceptionally wide frequency response essentially flat from 50 to 10,000 cycles. Distortion is less than 7% at full 35 watt output. Hum level is minus 25 db. Field supply for 2—4000 ohm dynamic speakers is built in. Output is universal, tapped at 4, 8, 16 and 500 ohms. Polarized receptacles for microphones and speakers are provided. Equipped with individual volume controls for each microphone and for phonograph. A tone control is also provided to attenuate the higher frequencies where "feedback" may be encountered. The A.C. switch is located on the front panel. Modern case measures 17x12x8¼ inches. Brown wrinkle finish, with chromium and brown control plates and output indicator strip.
For 110 volts, 60 cycles AC. Shpg. wt., 33 lbs.

A12035. 35 Watt Amplifier, less tubes.
List, $87.50. **CASH PRICE**.....

$43.50

A12074. Raytheon Tube Kit. NET $7.94. (For Portable Amplifier Case, see Page 82.)

NOW! POWERFUL P.A. from 6



20 WATT MOBILE SYSTEM

An entirely new powerful Public Address System designed for versatile performance. Operates directly and entirely from a single 6 volt storage battery wherever AC current is not available; or may be used on 110 Volts AC current simply by adding the inexpensive power pack listed above. Has truly universal application for mobile or temporary installations both indoors and outdoors, no matter what the current limitations may be. Will cover large crowds with wonderful power and excellent fidelity. Compact and portable. May be simply and quickly installed or changed from car to car or from one place to another. The finest and most efficient mobile-portable sound system available. Features a powerful 20 watt new high-gain circuit for direct operation of a high quality Astatic Dual-diaphragm Crystal Hand Microphone as well as phonograph. Built of the finest components and designed for the utmost simplicity in installation and operation. Beautifully built into a modern brown-wrinkle finished steel case with rounded corners, chromium and brown enamel trim, and heavy chromium carrying handles. Anyone can install and operate the **Knight 20 Watt Mobile System** easily and properly. It is the last word in versatile P.A. performance.

KNIGHT 20 WATT MOBILE SYSTEM COMPLETE, CASH PRICE

$107.50 WITH TUBES

SEE PAGE 65 FOR COMPLETE DETAILS OF OUR NEW CONVENIENT TIME PAYMENT PLAN. EARN WITH THIS KNIGHT P. A. EQUIPMENT WHILE YOU PAY!

COMPACT—POWERFUL

The complete **Knight 20 Watt Mobile-Portable System** consists of: 1—powerful 20 Watt High-Gain Amplifier, high grade dynamotor, single-speed electric phono motor, good quality magnetic pickup and control panel all self-contained in a single compact modern steel cabinet with carrying handles; 2—new type 12 inch Permanent Magnet Dynamic Speakers with 10 foot cables and polarized plugs; 1—new type Astatic Dual-diaphragm Crystal Hand Microphone with 6 foot cable and polarized plug. Designed to operate directly from a single 6 volt storage battery, but equipped with receptacle for quick connection to special 110 Volt AC power pack described below, to permit efficient operation from any 110 Volt 60 cycle AC line. The powerful 20 Watt High-Gain Amplifier uses six new type tubes in an efficient 4 stage circuit with a gain of 115 db. Tubes used are: 1—6C6, 2—76, and 3—6A6. The amplifier has an essentially flat frequency response from 80 to 10,000 C.P.S.

COMPLETE 20 WATT SYSTEM

The **Knight 20 Watt High-Gain Mobile-Portable System** is offered for operation from a 6 Volt storage battery only (110 Volts, 60 cycles AC power pack is listed below), complete as follows: 1—20 Watt High-Gain Amplifier, mixing panel, and phonograph in steel cabinet, with 2—12 inch Permanent Magnet Dynamic Speakers with cables and plugs, Astatic Crystal Hand Microphone with cable and plug, and complete operating instructions. Cabinet measures 11¾"x14"x16". Shpg. wt., 85 lbs.

A12030. Complete 6 Volt 20 Watt System. List Price, $215.00. **CASH PRICE, with tubes..... $107.50**

A12031. SPECIAL PLUG-IN 110 VOLT 60 CYCLES AC POWER PACK. Permits complete operation of above system from any 110 Volt, 60 cycle AC line. Complete with tube. List, $25.00. **YOUR PRICE..... $11.95**

BUILT-IN MIXER

The built-in control panel conveniently located on the top face of the steel amplifier cabinet carries separate volume controls for the microphone and phono pickup, permitting blending and "mixing" of voice or music as desired. Also includes tone control as well as "on-off" switch and bull's-eye and "stand-by" switch. Polarized receptacles are provided for plugging in microphone, speakers, "A" cable and 110 Volt AC power pack. May be installed completely, disconnected, or changed from 6 volts to 110 volts source, quickly and easily.

NEW CRYSTAL MIKE

The built-in preamplifier incorporated in the **Knight 20 Watt High-Gain Portable-Mobile** amplifier permits the direct use of a new type Astatic Dual-diaphragm Watch-case Crystal Hand Microphone. The use of this new microphone assures exceptional fidelity of voice reproduction and an outstanding quality of tone never before possible in a mobile sound installation. The convenient compact size of the Astatic Crystal Hand Microphone permits its use practically anywhere. It has the ruggedness and quality essential especially for mobile work.

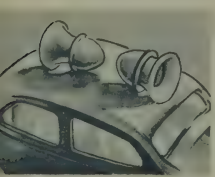
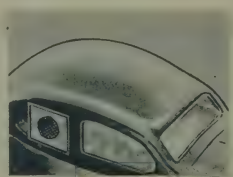
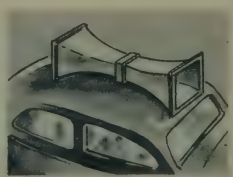


Illustration above shows typical sound car speaker installation using directional aluminum baffles. See page 82 for complete description. These baffles make an effective, sturdy and attractive installation, and may easily be taken down for use indoors.



Flat speaker baffles built into the side of the sound car are illustrated above. These baffles may be easily and inexpensively constructed out of heavy ply-wood or any other soft wood. May be painted to harmonize with finish of sound car. This type of baffle gives excellent side coverage at low cost. Also makes possible a very neat and attractive sound car installation.



Another method of mounting speakers on sound car. Here, weatherproof directional baffles are used. These baffles are described on page 82. They are low-priced, effective units, built of weatherproof material, attractively finished in aluminum. These baffles distribute sound over a wide area. Very attractive in appearance and unusually well designed.

The Knight 20 Watt Mobile Sound System is manufactured under license arrangements with Electrical Research Products, Inc., Subsidiary of Western Electric Co., Inc., Radio Corporation of America.

VOLTS D.C. or 110 VOLTS A.C.

WER PACK

operate either the
t 20 Watt Mobile
15 Watt All-Pur-
Volt Sound Sys-
n any 110 Volt, 50-60
AC lines. Pack
into amplifier quickly
asily. Switch on both
att and 15 Watt ampli-
permits rapid change-
from 6 Volt to 110
operation or vice versa.
**031. Plug-in Pow-
ack for 110 Volts, 60
s AC with tube.**
s $25.00. **$11.95**
.....

FEATURES:

- Universal Mike Input
- Electronic Mixer
- Stand-by Switch
- For 6 V. DC or 110 V. AC
- Built-in Preamplifier
- Phonograph Input
- Polarized Receptacles
- New P.M. Speakers
- Full 15 Watts Output

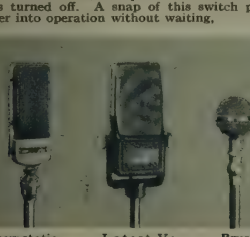
The Knight 15 Watt All-Purpose System is manufactured under license arrangements with Electrical Research Products, Inc., Subsidiary of Western Electric Co., Inc., Radio Corporation of America.

15 WATT *All Purpose* SYSTEM

A new attractively-priced 15 Watt All-Purpose Sound System. Operates entirely and directly from a single 6 Volt storage battery wherever AC current is not available, or may be operated from 110 Volts AC current simply by adding the plug-in Power Pack listed below. Delivers full 15 watts power output with good coverage. Ideal for all public address applications that require universal use in both city and rural areas. The 15 Watt Amplifier has universal input permitting the use of any high-impedance microphone. We offer below a choice of systems using diaphragm type Crystal, Velotron, Velocity, or Sound Cell Microphones. Input is also provided for a high-impedance magnetic phono pickup. A polarized receptacle on the amplifier permits its use with the special portable phonograph listed below on either 6 Volts DC or 110 Volts AC.

LATEST HIGH-GAIN CIRCUIT

The 15 Watt Amplifier incorporates the most recent high-gain circuit. Four high-gain stages are employed using: 1—6C6 as mike pre-amplifier; 1—6A6 as Electronic Mixer and voltage amplifier; 1—6A6 as phase inverter and driver; 2—6B5 as push-pull power amplifiers. This modern tube combination assures full 15 watts output with a gain of 113 db. for microphone and 65 db. for phono. The frequency response is essentially flat from 80 to 10,000 cycles. Current drain from a 6 volt storage battery is about 14 amperes; drain using AC pack is approximately 100 watts. A built-in sturdy genemotor furnishes "B" current dependably for 6 volt operation. A "stand-by" switch is provided; saves current by keeping the tubes warm for immediate operation while the amplifier itself is turned off. A snap of this switch puts the amplifier into operation without waiting.



The new static-velocity Velotron Microphone—features exceptional sensitivity, wide range fidelity, attractive design and compact size. Has unusually fine tonal sensitivity.

Latest Velocity Microphone — especially suited for orchestral and solo work. Has exceptionally fine quality on both voice and music. A fine new mike.

Brush Sound Cell Microphone—features 360 degrees pickup—compact size—has broadcast studio quality—ideal for group and choral work.

The **Knight 15 Watt Amplifier** is styled along modern lines. It is housed in a metal case, finished in a warm brown-wrinkle. Has attractive chromium and brown control plate with matching brown bakelite bar knobs. Separate volume controls are provided for microphone and phonograph so that they may be blended or mixed at will; "mixing" is electronically controlled. Tone Control is included for emphasis of bass or treble as desired and to compensate for varying acoustical conditions. Input is provided for plugging in two high impedance microphones; a switch cuts either one in at will. Two giant 12 inch new type permanent magnet dynamic speakers using new special alloy magnets handle full output adequately with wide tonal response. Polarized receptacles are provided for microphones, speakers and phonograph motor, to assure easy, rapid hook-up of the complete system.

15 WATT CRYSTAL SYSTEM

The **Knight 15 Watt All-Purpose High-Gain System** is offered complete for 6 Volt operation, with dual-diaphragm Crystal Microphone as illustrated above. Includes: 1—**Knight** 15 Watt All-Purpose Amplifier; 2—**Knight** 12" P.M. Dynamic Speakers complete with 30 foot cables and polarized plugs; 1—Astatic dual-diaphragm Crystal Microphone with 25 foot special microphone cable and polarized plug; 1—**Knight** Floor Stand; complete kit of Raytheon tubes, and full operating instructions. For 6 Volt operation only. Shpg. wt., 60 lbs.

A12040. List, $175.00.
CASH PRICE **$87.50**

A12031. Special Plug-in AC Power Pack. Permits complete operation of above system from 110 Volts, 60 cycle AC line. Complete with tube. List, $25.00. **NET** **$11.95**

A12044. Special Portable Phonograph. Operates with Knight 15 Watt Amplifier on 6 Volts DC or 110 Volts AC. (Must not be used directly on 110 Volts AC.) List, $55.00. **NET** **$27.50**

COMPLETE VELOTRON SYSTEM

The **Knight 15 Watt 6 Volt All-Purpose Sound System** complete as described above but with new **Velotron Microphone** instead of Crystal Microphone. Less Plug-in 110 Volt Power Pack.

A12041. List, $167.50.
CASH PRICE **$83.50**

COMPLETE VELOCITY SYSTEM

The **Knight 15 Watt 6 Volt All-Purpose Sound System** complete exactly as described above but with high grade **Velocity Microphone.** Less Plug-in 110 Volt Power Pack.

A12042. List, $185.00.
CASH PRICE **$92.25**

COMPLETE SOUND CELL SYSTEM

The **Knight 15 Watt 6 Volt All-Purpose Sound System,** complete as described but furnished with **Brush Sound Cell Microphone.** Less 110 Volt Power Pack.

A12043. List, $200.00.
CASH PRICE **$99.50**

Knight 15 Watt Crystal Sound System Complete
CASH PRICE

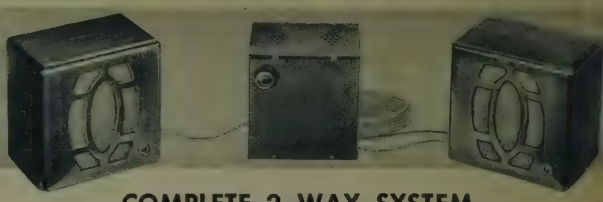
$87.50

You can now buy your Public Address Equipment on our convenient and attractive new Time Payment Plan. See page 65 for full details. Put the versatile new Knight 15 Watt All-Purpose System to work earning profits for you while you pay for it.

Two giant new 12 inch Permanent Magnet Dynamic Speakers using special magnetic alloys in their fields, are provided with the new **Knight 15 Watt Systems.** They are amazingly efficient, handling full output without overloading and with absolute tonal fidelity. These speakers are the very latest developed for P. A. work.

The **Knight 15 Watt All-Purpose Amplifier** has plug-in input for high impedance magnetic phono pickup. May be hooked up instantly by means of convenient pin tip leads. See our listing of new special portable phonograph above at left.

Here are the Latest Practical Low Cost INTERCOMMUNICATION SYSTEMS



COMPLETE 2 WAY SYSTEM

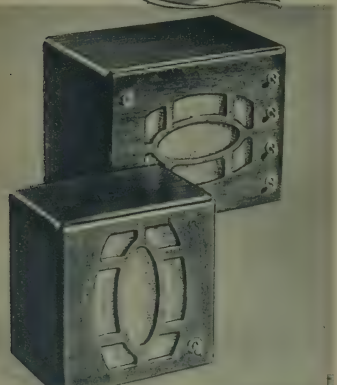
Here is an entirely new **Knight Intercommunication Sound System** with distinct advantages. Permits instant automatic direct communication between two (or more) points with excellent volume and clarity. Essential to modern businesses, homes and institutions. Saves time and effort. May be used between offices or between rooms and floors in homes and offices; suitable for paging and calling in factories, schools and hospitals, or for conversation between store and stockroom, house and garage, etc. The complete standard system as illustrated consists of two compact station units (7¼"x7⅜"x5¼"), a compact amplifier unit complete with tubes, and 50 feet of transmission cable with plugs at each end. Each station unit is made up of a high grade permanent magnet combination speaker-microphone housed in an attractive walnut cabinet with "Talk-Listen" switch. The amplifier unit uses 1—6C6, 1—43 and 1—25Z5 tubes and operates on 110 Volts, either A.C. or D.C. This unit may be installed in any convenient place. Installation can be made in a few minutes by simply plugging in. Easy to operate. You merely press the switch to talk and release it to listen. No need to shout—just speak normally. Tone quality is perfectly natural. Additional station units may be added as desired up to a total of five for "common talk" operation (all stations working simultaneously). Stations may be any distance apart. This new **Knight Intercom System** is a remarkable value at our low price.

A12080. Complete Knight Intercom System including 2-Station Units, 1—Amplifier Unit with tubes, 50 feet of cable and polarized connecting plugs and instructions.
List, $45.00.
YOUR PRICE **$22.45**
A12081. Additional Station Unit with 50 foot cable and plugs.
List, $17.50. **NET EACH** **$8.45**
A12082. Additional 50 Foot Cable and Plugs. NET EACH **3.85**

IDEAL FOR:

- OFFICES
- HOMES
- STORES
- FACTORIES
- HOSPITALS
- SCHOOLS, Etc.

New SELECTIVE *Master Station* INTERCOMMUNICATION SYSTEM



This new **Knight Master Station System** is composed of a Master Station, centrally located, and from one to four outlying Sub-Stations. These Sub-Stations may be placed anywhere, at any distance from the Master Station. A switch is provided on the Master Station for every Sub-Station in the system. Merely pressing the switch permits instantaneous contact with the Sub-Station corresponding to that switch. For example, in a typical business, the Master Station may be located on the General Manager's desk. There may be Sub-Stations in the Sales Department, Stock Room, Shipping Room and Receiving Room. The General Manager then has at his instantaneous command, immediate communication with each of the Sub-Stations in his various departments. The **Knight Master Station Intercommunication System** is so arranged that the Master Station can call and talk to any Sub-Station and any Sub-Station can call and talk to the Master Station, but the Sub-Stations cannot call and talk among each other. This arrangement is ideal for centralized control of intercommunication in offices, factories, stores, institutions, etc.

The complete basic **Knight Master Station System,** as illustrated, consists of the Master Station Unit (large cabinet in illustration), and two Sub-Stations (small cabinet) each with 50 feet of connecting plug-in cable. Additional Sub-Stations, up to a total of four, may be added. (See below for price.) Sub-Stations may be connected quickly and easily by plugging cords directly into receptacles provided on the Master Station Unit. The Master Station contains the amplifying unit which operates on 110 volts, either A.C. or D.C. An "on-off" switch and jeweled bull's-eye are provided, as well as "talk-listen" switches for control of each Sub-Station. The amplifier uses 3 of the latest type tubes in a hum-free sensitive circuit: 1—6C6, 1—25L6 Beam Power Tube, 1—25Z5. The Master Station is built into an attractive walnut wood case of compact proportions. Measures only 10"x8½"x6¾". The newest permanent-magnet type combination speakers-microphones are used in both Master Station and Sub-Stations for unusually natural voice reproduction. Each Sub-Station has "talk-listen" switch for contacting Master Station, and is equipped with 50 foot connecting cable and plugs. Walnut Sub-Station cabinets measure only 7¾"x7¾"x5¼". Installation can be made in a few minutes.

A12083. Complete basic Knight Selective Master Station System including 1—Master Station Unit with tubes; 2—Sub-Stations with 50 foot cables and polarized connecting plugs. With complete instructions.
List, $75.00. **YOUR PRICE** **$37.50**
A12084. Additional Sub-Station with 50 foot cable and plugs ..... **NET. $8.45**
A12088. Additional 50 foot cable and plugs. NET **3.85**

New SUPER-SELECTIVE SYSTEM *Up to 5 Stations May Be Used*

This is a new private Intercommunication System especially desirable for use in executive offices, institutions, etc. Permits direct two-way private communication between any two stations. Any group of two stations may converse privately while another group of two stations is also in private conversation at the same time, without any interference or overhearing between these groups. The **Knight Super-Selective System** assures absolute privacy. Any station in the system may converse instantaneously and at will with any other station, with no interference or eaves-dropping from any of the other units. The basic complete Super-Selective System consists of 3—self-powered Station units as illustrated, with 50 foot inter-connecting cables and plugs. (Additional stations may be added up to a total of 5. See below for price.) Each Station consists of a combination F.M. Speaker-Microphone, a universal amplifier operating on 110 volts, A.C. or D.C., an "on-off" switch with indicating bull's-eye, and four "press-to-talk" station control switches. Built into attractive walnut case; size: 10"x8½"x6¾". Polarized receptacles are provided. With 50 foot cable and connecting plugs. Amplifier uses 1—6C6, 1—25L6 Beam Power Tube, 1—25Z5. Installation of the Super-Selective System is easily and quickly accomplished.

A12085. Complete basic Knight Super-Selective Station System including 3—Station Units, each with tubes and 50 foot interconnecting cables and plugs. With instructions.
List, $130.00. **YOUR PRICE** **$64.50**
A12086. Additional Station Unit with 50 foot cable and plugs. NET.. $22.85
A12087. Additional 50 foot cable and plugs. NET **3.85**

18 WATT *High-Gain* PORTABLE SOUND SYSTEM

An entirely new, completely portable full 18 watt public address system of exceptional power and wide-range fidelity. Uses the new type dual-diaphragm Astatic Crystal Microphone. Designed especially for use by orchestras and lecturers, for demonstration purposes, funeral parlors, churches, political meetings, etc. Complete in every detail. Unusually portable, compact and convenient. Entirely self-contained in a single carrying case, 9¾"x18¼"x18½". Weighs only 45 lbs. complete. The **Knight 18 Watt Portable Sound System** is also arranged for phonograph input. (See page 31 for suitable portable phonographs.) It is provided with individual volume controls for phonograph and microphone permitting blending or fading in any degree desired. Tone control for bass or treble emphasis is also incorporated. For value, completeness, ready portability, ease of operation and highest tonal fidelity, the **Knight 18 Watt Portable Sound System** is unrivalled.

WITH DUAL-DIAPHRAGM CRYSTAL MIKE

The new dual-diaphragm Astatic Crystal Microphone is used in the **Knight 18 Watt Sound System.** This high quality microphone is non-directional, picking up sound from any angle. It has an exceptionally fine frequency response from 20 to 10,000 C.P.S. The four-stage amplifier develops a remarkable high gain of 115 db. to utilize the crystal microphone to fullest advantage. Frequency response is essentially flat from 50 to 10,000 C.P.S. The full 18 watt output from the circuit is assured by the use of the following tubes: 1—6C6, 2—6A6, 2—6B5, 1—5Z3. The powerful **Knight** 12 inch Electro-dynamic speaker handles output adequately with splendid tonal response. The **Knight 18 Watt Portable Sound System** is as much distinguished for its attractive appearance as for its performance. The new 18 Watt amplifier is in a pleasing brown wrinkle-finished metal case with harmonious chromium and brown control panel and transformer case trim. Really modern in design.

COMPLETE 18 WATT SYSTEM

The complete **Knight 18 Watt Portable Sound System** includes: 1—18 watt high-gain amplifier; 1—dual diaphragm crystal microphone mounted on 10 inch banquet stand with 25 foot cable and polarized plug; 1—12 inch **Knight** dynamic speaker with 30 foot cable and plug. Entirely self-contained in a single sturdy carrying case. Complete with tubes and instructions. For operation on 110 Volts, 60 cycles AC. Shpg. wt., 51 lbs.

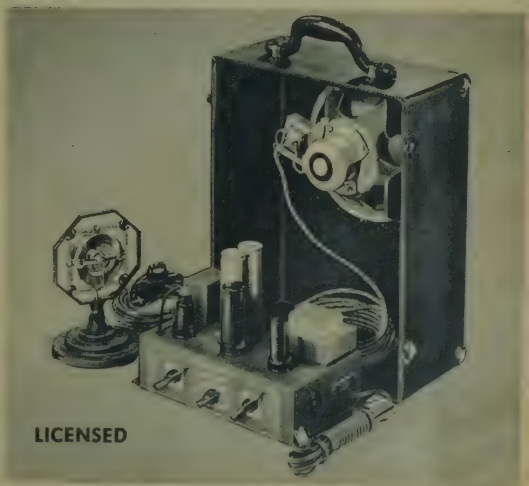
12023. List, $130.00.
CASH PRICE COMPLETE **$64.50**

Extra speaker in portable case is available at $9.75.
The above system can also be had with a **Knight** floor stand instead of banquet stand at no extra cost). **MAKE YOUR P. A. ORDER TOTAL UP TO $75 OR MORE AND BUY YOUR KNIGHT SOUND EQUIPMENT ON THE CONVENIENT NEW ALLIED TIME PAYMENT PLAN. SEE PAGE 65 FOR COMPLETE DETAILS.**

LICENSED

Knight 8 WATT STANDARD SOUND SYSTEM

A compact new portable sound system of modern design. Delivers full output of 8 watts for dependable inexpensive performance. Very suitable for use in store demonstrations, small halls, churches, club-rooms, sales talks, side-shows, etc. Has real advantages in compactness and completeness. The entire system is completely contained in a single leatherette-covered carrying case, 8½"x12¾"x 5¾". Weighs only 24 lbs. Includes the following: 1—**Knight** "Little Giant" Standard Amplifier; high quality carbon microphone on desk stand with 25 foot cable and polarized plug; 1—8½" electro-dynamic speaker mounted in case, with 25 foot cable and polarized plug. Uses the latest new metal tubes throughout for complete stability and for space economy. No external batteries or mixers are required; microphone transformer and current supply are built in. Has input for phonograph as well as for microphone.



LICENSED

COMPACT—PORTABLE—INEXPENSIVE

The **Knight 8 Watt Standard Portable System** is an unusual value in a high quality small portable public address system. Has unusual modern features. Provided with individual volume controls for microphone and phonograph to permit "mixing" action. Tone control allows accentuation of bass or treble as desired and compensates for varying acoustical conditions. All controls are conveniently grouped on the modern attractive front panel which is strikingly finished in chromium with harmonious brown enamel trim. Full 8 watts output and a minimum of distortion are assured by the use of the powerful new Electron Beam Power 6L6 metal output tube. 6J7 is used as voltage amplifier; with 5Z4 as rectifier. The finest quality double-button carbon microphone is used for good fidelity pickup; mounted in a 9 inch desk stand for convenient use. The full 8½ inch **Knight** electro-dynamic speaker handles volume adequately with exceptionally fine tone quality.

COMPLETE 8 WATT STANDARD SYSTEM

The **Knight 8 Watt Standard Sound System** comes complete in the sturdy attractive carrying case illustrated. Includes: 1—**Knight** 8 watt Metal Tube Amplifier; 1—high quality carbon microphone in desk stand with 25 foot cable and polarized plug; 1—**Knight** 8½ inch electro-dynamic speaker with 25 foot cable and polarized plug—all in a single unit carrying case. For operation on 110 volts, 60 cycles, AC. Shipping weight, 40 lbs. This high quality low-cost **Knight 8 Watt Portable Sound System** has hundreds of useful applications.

12010. Complete with tubes.
List, $60.00. **YOUR PRICE** **$29.75**

Low-Priced Knight INSTITUTIONAL SOUND SYSTEMS

EFFECTIVE SOUND DISTRIBUTION FOR SCHOOLS, HOSPITALS, HOTELS, ETC.

ALLIED now makes available a complete line of custom-built Sound Systems designed to meet the sound distribution needs of schools, hospitals, hotels, department stores, etc. This equipment is the product of considerable experience in filling the special sound needs of innumerable institutions, both large and small. The new **Knight Institutional Sound Systems** are distinguished for their completeness, their adaptability for future expansion, their outstanding quality and their low cost. Every conceivable Institutional sound need can be covered by this type of **Knight** system. In schools, it is invaluable in supplementing the regular educational program by means of radio and record distribution. It has further advantages for assembly work, for individual class room contact, for alarms, etc. In hospitals, hotels, etc., perfect radio and record distribution is available for patients and guests. Each **Knight System** is hand-built to meet the requirements of the institution for which it is intended. It is built into an attractive wood cabinet of harmonious design to blend with any setting. While the size of the system may vary, basic built-in equipment includes a powerful high quality amplifier, all-wave radio tuner, 2 speed phonograph, program selector panels, speaker selection and distribution controls, volume level indicator, and monitor speaker. A high quality Crystal Microphone is included and Jensen wall type peridynamic speakers are supplied. **Knight Institutional Sound Systems** are available with single or dual channel input, to operate practically any number of speakers. "Talk-back" or "monitor" feature may also be included if desired. There is a **Knight Sound Distribution System** for every need and requirement.

KNIGHT DE LUXE 10 SPEAKER SYSTEM

A typical **Knight Institutional Sound System** is illustrated at the left. It is available in basic form for sound distribution to 10 rooms. (Additional channels and speakers may be added.) The complete system includes: All-Wave radio tuner; dual-speed phonograph; program selector panel; ten speaker control panel; high quality 18 watt high-gain amplifier; monitor speaker—all built into a massive cabinet of selected wood, hand-rubbed to a splendid walnut finish. An Astatic Dual-diaphragm Crystal Microphone with banquet stand and 25 foot cable is included together with 10—Jensen Permanent Magnet wall-type inclined-baffle room speakers. Supplied complete with tubes. For 110 volts, 60 cycles A.C. Less speaker cables.

A12051. Complete 10 Speaker System as described.
YOUR PRICE **$375.00**

We are prepared to make complete recommendations and to supply suitable equipment at lowest prices to meet any institutional sound requirement, regardless of size. Please furnish complete specifications. No obligation will be incurred for our consulting service.

Popular STANDARD SYSTEM

FOR SMALLER SCHOOLS AND INSTITUTIONS

A complete line of budget-minded sound systems developed particularly for smaller schools upon the recommendations and suggestions of leading authorities on education by radio. Entirely practical in both design and application. Simple to operate. Extremely versatile; may be adapted to any school sound distribution problem. These **Knight** low-cost standard systems are ideal for individual or group class room addresses to supplement the regular educational program, and for school dramatic and athletic activities as well as for emergency alarms. These systems bring within the reach of even the smallest school the splendid educational radio broadcasts and transcriptions that are now available. Rugged economical design incorporates the use of an attractive black-crackled steel cabinet into which is incorporated various combinations of equipment to meet individual needs. Basic system consists of: high quality amplifier, speaker selector and distribution panel and monitor speaker, together with microphone, and required wall-type room speakers. Sectional design allows for future expansion and addition. Any radio tuner may be used externally or built in. External portable phonograph may also be used for reproduction of transcriptions.

STANDARD 10 ROOM SCHOOL SYSTEM

A typical **Knight School Sound System** is illustrated at the left. It is available in basic form for sound distribution to 10 rooms. (Additional speakers up to a total of 30 may be added. Other systems are available to handle up to 90 speakers.) Complete system includes: 1—**Knight** 25 Watt amplifier, 1—Speaker control panel for 10 speakers, monitor speaker—all built into attractive steel enclosed cabinet. With Astatic dual-diaphragm crystal microphone and floor stand with 25 foot cable, and 10 special wall-type high quality magnetic speakers. Complete with tubes. Less speaker connecting cables. (Portable phonograph and radio receiver may be selected from this catalog.)

A12050.
YOUR PRICE **$165.00**

Knight Standard School Systems are available for every requirement. We invite schools to write for helpful recommendations and attractive quotations to cover their special needs. Complete specifications will be welcomed.

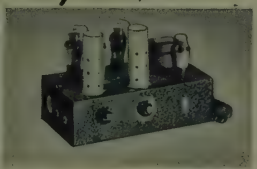
PRE-AMPLIFIERS

Bring your Amplifier Performance Up-to-Date

KNIGHT A.C. PREAMPLIFIER

A new broadcast-station-quality A.C. operated pre-amplifier. Completely built into one compact steel case. Designed to amplify the output of crystal, velocity, dynamic or other low-level microphones to a point where they can be fed into mixing circuits, telephone lines or any low-gain main amplifier. Input is arranged for 50, 200 or 500,000 ohms to match the output of any type of microphone. A volume control is incorporated for convenient operation. Output is to 200 ohm line. Uses 1—6C6 as S.G. Amp.; 1—6C6 as Triode-Amp.; uses 84 as rectifier. Amplifier component parts are carefully shielded and mounted on sponge-rubber brackets. Has a gain of 60 db. and a flat response from 30 to 12,000 cycles. Hum is negligible. Case size, 6¾"x8¼"x11¾". Shpg. wt., 33 lbs. For 110 Volts, 60 cycles A.C. Complete with tubes.

A12056. YOUR PRICE..... $44.25



KNIGHT 2 CHANNEL A.C. PREAMPLIFIER

Modernize your carbon mike amplifier—use the latest Crystal or high-impedance Velocity Microphones for better reproduction. This **Knight 2 Channel A.C. Preamplifier** is designed to pre-amplify and mix 2 low-level high impedance microphones. Each microphone has a separate two stage channel with volume control. Especially adaptable for crystal or high impedance velocity microphones. Permits you to use these high quality low level microphones with your present low-gain amplifier. Each channel uses 1—6C6 tube as S.G. Amplifier, and 1—6C6 as Triode Amplifier; with 84 rectifier. Gain is 64 db.; hum is negligible. Output is 200 and 500 ohms. Has essentially flat frequency response from 40 to 10,000 cycles. Complete with tubes. For 110 Volts, 60 cycles. Steel case size, 12"x 6½"x3½". Shpg. wt., 21 lbs.

A12057. YOUR PRICE..... $22.50

RACKS & PANELS

RELAY RACKS

Designed for Transmitters or Public Address Systems. (A complete assembly is illustrated, incorporating Phonograph, Radio, Monitor, Mixing and Control panels, with 3 output channels.) Heavy wrought steel base is drilled for floor mounting. Black crystalline-finish. Accurately drilled for mounting screws every 1¾ inches. Steel crystalline-finished panels are available in sizes listed below.

FOR STANDARD 19 INCH PANELS

Heavy channel iron construction assures maximum rigidity and keeps all units in alignment. Standard size to accommodate 19 inch panels with holes spaced 18⅜ inches. Shipped in knocked-down form. Easy to assemble. Nuts and bolts are furnished. Exceptionally sturdy construction for rigid permanent assembly. Will make professional appearing Transmitter and Public Address Installations.

38½ INCH RACK

A9938. 38½ Inches High. Rack only. Shpg. wt. 32 lbs.
YOUR NET PRICE..... $8.70

73½ INCH RACK

A9939. 73½ Inches High. Rack only. Shpg. wt. 45 lbs.
YOUR NET PRICE..... $10.70

BLANK PANELS

Black crystalline finish. Fit standard relay racks.

A9972	1¾"x19"	$0.56
A9973	3½"x19"	.61
A9974	5¼"x19"	.67
A9975	7" x19"	.70
A9976	8¾"x19"	.95
A9977	10½"x19"	1.12
A9978	12¼"x19"	1.32
A9979	14" x19"	1.56
A9980	15¾"x19"	1.73

PHONOGRAPH PANEL

A9937. For mounting standard phonograph motor and pickup in relay rack. Black crystalline finish. Design as illustrated.
YOUR PRICE..... $5.65

RACK MOUNTING BRACKETS

All Knight amplifiers can be adapted to standard relay rack mounting if desired. Special brackets are available separately or can be obtained with amplifier at slight additional cost. Brackets finished to match amplifier case. Write for prices.

ELECTRIC PORTABLE PHONOGRAPHS

LOW-COST SINGLE-SPEED MODEL

A dependable portable electric phonograph, suitable for use with any amplifier or radio set having a high-impedance phono input circuit. Incorporates a high-grade single-speed 78 R.P.M. motor, self-starting synchronous type; maintains constant speed regardless of line voltage variations. Equipped with 12 inch turntable. Uses flat type magnetic pickup which has excellent frequency response. Pickup cord is equipped with convenient phone tip ends. Includes built-in volume control. Has needle cup. The entire assembly is housed in a compact, sturdy leatherette-covered case which measures 15¾"x13¾"x4¾" open; 15¾"x13¾"x7" closed. Leather carrying handle is securely riveted on top. Entire unit is light in weight; compactly built for easy portability. Includes approved 6 foot cord and plug. For operation on 110 Volts, 60 cycles, A.C. Shpg. wt., 29 lbs.

A10080. YOUR PRICE..... $13.65

HIGH GRADE DUAL-SPEED MODEL

Essential equipment for sound systems. Also suitable for use with any radio set arranged to accommodate a high impedance phonograph. Equipped with the finest self-starting dual-speed (78 and 33⅓ R.P.M.) heavy-duty phonograph motor with weighted, balanced 12 inch turntable. Motor has speed-regulating and speed-shift levers. Incorporates the latest Webster high-fidelity magnetic pickup with built-in volume control. Has pickup cord with convenient phone tip ends. Comes in handsome black leatherette-covered case with metal corners and rubber feet. Has slip-type hinges which allow cover to be removed. Measures 17½"x13¾"x9". Equipped with leather carrying handle which will not loosen or pull off. Fills every requirement for high quality, portable phono equipment. Includes approved 6 foot cord and plug. For operation on 110 Volts, 50-60 cycles, A.C. Shpg. wt., 36 lbs.

A10081. YOUR PRICE..... $22.65

THESE PORTABLE ELECTRIC PHONOGRAPHS ARE UNUSUALLY SUITABLE FOR USE WITH ALL KNIGHT SOUND SYSTEMS

PORTABLE CASES FOR KNIGHT SOUND AMPLIFIERS

FOR KNIGHT 8 WATT SOUND SYSTEMS

A ruggedly-built carrying case. Particularly designed for easily carrying either of the two Knight 8 watt Sound Systems. May also be used for other small amplifiers or similar equipment. Laminated plywood construction with metal reinforced corners. Attractive black leatherette covering. Has shielded grille for 8" speaker. Metal plate and adjustable web strap for holding microphone and desk stand. Non-tarnishing corners and cover clasps. Measures 17" high, 12¾" wide and 8⅝" deep.

A9525. NET..... $5.95

FOR KNIGHT 18 WATT AMPLIFIER

An unusually fine portable amplifier case. Designed for use with the Knight 18 watt High Gain Amplifier for portable work. It can also be used to carry other equipment of similar type and size. Leatherette - covered. Comfortable, securely fastened carrying handle; bottom fitted with rubber feet. Has shielded grille for 12" speaker, protected by roll-down cover with snap fasteners. Web straps provided for holding desk type mike stand. Gun-metal finished hardware. Measures 18¾"x17½"x9½".

A9526. NET .. $7.95

FOR KNIGHT 25, 35 & 60 WATT AMPLIFIER

SIZE: 18⅞x 14½x 9⅜".

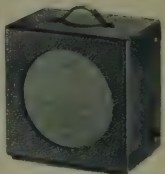
ATTRACTIVE—DURABLE

An exceptionally rugged carrying case for use with the Knight 25, 35 or 60 watt Amplifiers. Strong and rigidly constructed; laminated plywood used to combine strength with light weight. Durable black leatherette covering, non-tarnishing gun-metal corners and positive-lock clasps. Case covers amplifier and fastens at bottom. Has rubber feet and sturdy leather carrying handle.

A9527. NET $7.25

SINGLE SPEAKER CASE

An attractive portable case that fits any 12 or 12½" dynamic speaker. Ideal for use in portable sound systems, or for temporary speaker installations in the field. Speaker opening protected by grille cloth with protective steel-wire screen backing. Snap-on back fitted with easy-acting trunk clasps. Non-tiring carrying handle on top. Measures 13¼" high, 13½" wide, 9" deep.



A9467. NET..... $3.15

SPEAKER CASE ADAPTER

A cleverly designed bracket which provides for mounting single speaker case above on the adjustable stand described directly below. Holds case solidly. Easily attached.

A10294. NET $2.15

DUAL SPEAKER CASE

Permits easy transportation of two 12 or 12½ inch dynamic speakers. Case divides diagonally into two separate units, each equipped with rubber feet. Clamp-tite clasps hold units together firmly. Heavy plywood construction with neat black leatherette covering; carrying handle is provided at one end. Speakers mount inside; cones are protected by steel wire screen covered with grille cloth. Sections specially designed to serve as baffle for speakers while in operation. Extremely compact and easily portable when closed, measuring 21½" high, 13½" wide, 8½" deep. Wt., 7 lbs. Ideal for use with Knight Auditorium speakers or for portable sound systems.

A9466. NET $5.95

WEATHERPROOF BAFFLES DIRECTIONAL—DEMOUNTABLE

22"x23" BELL, 25" Deep.

Ideal for use with any standard dynamic speaker; will greatly increase tonal fidelity and enlarge sound coverage. Will materially improve large indoor speaker installations. Weather-proof. Finished in aluminum. Speaker housing measures 15¾x15¾x 11 inches. Type A is for speakers with 10 to 12 inch cones. Type B is for 7 to 9 inch cones. Wt., 15 lbs.

LESS SPEAKER HOUSING

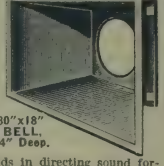
A10270. TYPE A.
A10271. TYPE B.
YOUR PRICE, EACH..... $5.10

WITH SPEAKER HOUSING

A10272. TYPE A.
A10273. TYPE B. EACH.... $8.10

FLARE TYPE—DEMOUNTABLE

Semi-directional, weatherproof baffle horns. Finished in brilliant aluminum. Will improve the frequency response, increase the efficiency, and direct the sound distribution of any dynamic or magnetic speaker. Easily demountable. Supplied with or without speaker housing case. Housing case aids in directing sound forward for large area coverage. Type A is for speakers with 10 to 12 inch cones. Type B is for 7 to 9 inch cones. Wt., 10 lbs.



30"x18" BELL, 14" Deep.

LESS SPEAKER HOUSING

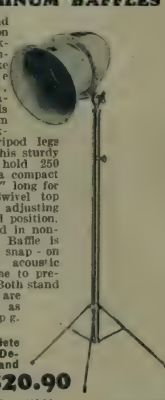
A10276. TYPE A.
A10277. TYPE B.
YOUR PRICE, EACH..... $3.95

WITH SPEAKER HOUSING

A10278. TYPE A.
A10279. TYPE B. EACH.... $6.80

STANDS AND MOUNTINGS FOR ALUMINUM BAFFLES

The ideal sound accessory combination for all portable speaker requirements. Consists of the Deluxe Aluminum baffle shown at right, mounted on adjustable stand. Stand is fully adjustable from 46 to 78"; has locking clutch, and tripod legs with 36" spread. This sturdy stand will safely hold 250 lbs.; folds up into a compact unit 2½" diam., 39" long for easy portability. Swivel top with saddle permits adjusting baffle to any desired position. Entire stand finished in non-tarnishing chrome. Baffle is Deluxe type with snap-on weatherproof cover; acoustic felt padding in dome to prevent reverberation. Both stand and swivel top are available separately as listed below. Shpg. wt., 20 lbs.



A10290. Complete Unit as described; Deluxe Baffle, Stand, and Swivel unit. NET $20.90

A10291. STAND ONLY. 11 lbs. YOUR PRICE..... $9.78

A10292. SWIVEL AND SADDLE ONLY. 2 lbs. YOUR PRICE.. $2.50

AUTO TOP AND WALL MOUNTING WITH SWIVEL

For easy mounting of aluminum baffles on top of Auto or on the wall. Sturdily constructed with 7¾" cast base. Finished in aluminum. Swivel permits pointing baffle for best sound distribution. Stand is 12" high. Wt., 6 lbs.

A10293. NET..... $2.88

ALUMINUM BAFFLE WEATHERPROOF MODEL

HEAVY GAUGE DELUXE

A ruggedly built unit of 18 gauge spun aluminum. Weatherproof; light - weight and extremely portable. Design is acoustically correct for maximum sound distribution. Flare is 16½" in diam., 9¾" long. Bell housing 10" deep, is lined with heavy felt to eliminate all reverberation. Supplied with weatherproof snap-on cover and protective metal screen for cone opening. For speakers smaller than 12" diam. use reducer rings listed below. Shpg. wt., 6 lbs.

A10282. NET $8.82

STANDARD MODEL

A10283. Same sturdy baffle as above, but less weatherproof cover and absorbent felt lining in dome. **NET $5.28**

A10284. TRUMPET FLARE only. For mounting on front of portable cases, etc. 16½" dia. x 9¾" long. Wt., 3 lbs. **NET $4.26**

A10285. Weatherproof Cover. YOUR PRICE 70c

A10280. REDUCER RINGS. For reducing size of opening. State speaker size when ordering. **EACH..... 44c**

WALL SPEAKER HOUSING

An attractive spun - aluminum housing for mounting speaker on wall. Metal screen and grille cloth protect speaker cone. Easy to mount and install.

A10274. For speakers of not more than 8" overall diameter. YOUR PRICE $2.35

A10275. For speakers of not more than 10" overall diameter. YOUR PRICE $2.94

P. A. SPEAKERS • HORNS • UNITS

KNIGHT AUDITORIUM DYNAMIC SPEAKERS

Ruggedly built, powerful 12 inch Auditorium Dynamic Speakers designed to reproduce large audio power with absolute fidelity. Will easily handle 10 to 15 watts of power without distortion. Heavy, pressed steel dreadnaught construction assures long life. Satin-black enamel finish. Has one piece pressed cone with new 3 point spider suspension. Heavy-duty well-made voice coil has large inside diameter of 1¼ inches. Large field coil dissipates from 10 to 15 watts safely. Overall height, 12½ inches. Depth, 7 inches. Easy to mount on baffle board or in carrying case. Supplied in D.C. excited types of various field resistances or in an A.C. operated type using an 80 rectifier. Voice coil has 16 ohms impedance. All speakers are supplied less output transformers. Special Knight Universal Output Transformer tapped to match any power tube combination is listed below.

EXCELLENT QUALITY

Ideal for use with all types of Public Address systems. All models have heavy fields and oversized housings giving higher field strength, enabling the speaker to handle large power without danger of overloading. Cone and voice coil are designed to give high quality wide range frequency response when operated at any audio level up to 15 watts.

FOR ALL P. A. SYSTEMS

Especially designed for heavy-duty use. They feature excellent sensitivity, delivering both voice and music brilliantly. Heavy design and construction permit the use of these Knight speakers either indoors or outdoors. Use Knight Auditorium Dynamic Speakers for replacement purposes, for new P.A. Systems, for extra speaker installations, etc.

A9460. 6 Volt Field. (4 Ohm.) Battery Excitation.....
A9461. 1000 ohm Field.....
A9462. 2500 ohm Field.....
A9463. 4000 ohm Field.....
NET EACH **$5.95**

GIANT 12 INCH TYPE

NOTE: Write for prices for Knight Auditorium Dynamics equipped with any field you specify, and with special output transformer for Class "B" or Class "AB" operation.

A11005. Knight Universal Output Transformer. NET.....95c
If ordered with speaker specify output tubes and how connected.

A9464. 12-inch Auditorium Dynamic for 110 Volts, 60 Cycles, A.C. Less 80 Tube. YOUR PRICE..... **$8.75**

Portable cases for Knight Auditorium Dynamic Speakers are listed to the left on page 82. When ordered together, speakers and cases will be assembled at no extra charge.

CINAUDAGRAPH "Magic Magnet" SPEAKERS

"Magic Magnet" Speakers have gained an enviable reputation for unexcelled performance. Have unique compact design and construction; cone and voice coil are one integral assembly. Polyfibrous cone eliminates resonant peaks and rattles. Voice coil cannot become off-center. Extremely high field density is provided by "Nipermag" permanent magnets; require no external excitation. Power handling ability and sensitivity are much higher than other speakers of corresponding size. Frequency response is unusually flat across entire audible range; permits the use of one speaker only instead of "Woofer-Tweeter" combinations. Ideal for all radio sets or public address installations which require the finest reproducers available. Supplied less output transformer.

MODEL MA 6-8—6 INCH

Will handle 4 to 8 watts. Overall diam. 6⅝"; depth 2 5/16". Voice coil ¾" diam.; 6 ohms. Res. freq. 120-150 CPS. 2 lbs.
A10410. List. $5.25. NET..... **$3.09**

MODEL EZ 8-7—8 INCH

Normal input 5 to 8 watts. Overall diam. 8⅛"; depth 3¾". Voice coil 1"; 6 ohms. Res. freq. 110-150 CPS. 3 lbs.
A10411. List. $7.50. NET..... **$4.41**

MODEL EZ 8-10—8 INCH

Normal input 5-8 watts. Size as above, but with larger, stronger magnet; has added sensitivity. Depth 4¼". Wt. 5 lbs.
A10412. List. $10.50. NET..... **$6.17**

MODEL NZ 10-7—10 INCH

Handles 8 to 10 watts continuously. Overall diam. 10⅛"; depth 4". Voice coil 1" diam.; 6 ohms. Resonant frequency 80-110 CPS. Wt., 3 lbs.
A10413. List. $9.00. NET..... **$5.29**

MODEL NZ 10-10—10 INCH

As above but with larger magnet. Handles 8 to 10 watts. Depth 4½". Wt. 5 lbs.
A10414. List. $12.25. NET..... **$7.20**

MODEL FY 12-12—12 INCH

For large radios and public address use. Overall diameter 12⅛"; depth 5⅝". Voice coil 1½"; 6 ohms. Will handle 15 to 18 watts continuously. Resonant frequency 60-80 CPS. Capable of high efficiency with extremely brilliant reproduction. Wt. 10 lbs. Less transformer.
A10415. List. $27.50. NET..... **$16.17**

MODEL HW 13-13—12½ INCH

A true high fidelity speaker for the finest radio sets and sound systems. Will handle 20 to 30 watts continuously. Overall size 12⅝"; depth 6". Voice coil diam. 2½"; 6 ohms. Resonant frequency 30-50 CPS. Less transformer. Wt., 43 lbs.
A10416. List. $61.00. NET.. **$35.87**

MODEL SU 18-12—18 INCH

The finest reproducer available for all types of high-fidelity Public Address, Theatre Sound Systems, Radio Broadcast, or Studio installations. Easily handles 30 to 35 watts. Overall size 18¾"; depth 7½"; 6 ohm voice coil, 3½" diam. Less transformer. Wt., 78 lbs.
A10417. List. $115.00. NET..... **$67.62**

OXFORD SPEAKERS

EXPONENTIAL HORNS AND UNITS

A new exponential type of indoor or portable outdoor horn. Heavy-gauge, spun-aluminum construction. Aluminum is acoustically treated to avoid any metallic sound. Ideal where volume, directional effect and appearance are of great importance. Impervious to all weather and atmospheric changes. Light-weight; only 7½ lbs.; readily suitable to mobile sound systems. Permanently fastened support is provided for use on standard horn stands. Bell diameter, 20"; horn length, 20"; overall length, approximately 36". Acoustically matched; weatherproof horn; diaphragm will handle power surges up to 15 watts safely. Will handle 10 watts continuously. Shpg. wt., 28 lbs.

A10438. Equipped with P.M. horn unit. List. $40.50. NET.... **$23.81**
A10435. With 6 volt horn unit.
A10436. With 1000 ohm unit.
A10437. With 2500 ohm unit.
List. $36.00. NET EACH..... **$21.17**
A10440. Horn only less unit. List. $25.00. NET..... **$14.70**
A10441. Heavy-duty chromium-plated collapsible floor stand with folding base. Maximum height, 78". Minimum height, 46". List. $21.00. NET..... **$11.80**

AIR COLUMN HORNS AND UNITS

A brand new efficient line of air column horns and units. Utilizes the famous "Cinaudagraph" permanent magnet field structure which does away completely with separate field supplies. Air column units are so constructed as to withstand the damaging influence involved in outdoor applications. Wing nuts are provided for easy removal or attachment of unit to horn. Standard handle-type supporting bracket permits permanent ceiling or portable stand mounting. Horns are of spun aluminum.

HORNS ONLY

MODEL HU. 24" Bell, 20" Air Column. For use with HWA or SUA units.
A10425. NET.. **$14.41**
MODEL FX. 24" Bell, 28" Air Column. For use with FYA unit.
A10426. NET..... **$18.82**
MODEL SW. 32" Bell, 20" Air Column. For use with HWA or SUA units.
A10427. NET.. **$31.16**

SUPPORTING BRACKETS

Dual purpose handle type mounting bracket. Shpg. wt., 6 lbs.
A10430. For FYA unit...$2.06
A10431. For HWA unit.. 2.65
A10432. For SUA unit.. 3.38

AIR COLUMN UNITS ONLY

MODEL FYA—8 INCH

Capable of handling steady power input of 15 watts and surges of power up to 20 watts. Actuates an 8" diaphragm with 6 ohm 1½" voice coil. Binding post connectors. Ideal for use with FX horn listed at left or with similar horns. Less transformer. Shpg. wt., 11 lbs.
A10420. List. $31.00. NET..... **$18.23**

MODEL HWA—10 INCH

Will handle surges of 30 watts but rated for 25 watts continuous duty. 10 inch diaphragm. 6 ohm 2½ inch voice coil. Will operate with either the HU or SW horns listed at left. Less transformer. Shpg. wt., 35 lbs.
A10421. List. $70.00. NET..... **$41.16**

MODEL SUA—10 INCH

Rated at 30 watts continuous duty, 40 watts peak. Recommended for large installations such as stadiums, outdoor fields, large auditoriums, etc. 6 ohm 3½ inch voice coil. Less transformer. Shpg. wt., 42 lbs.
A10422. List. $91.50. NET..... **$53.80**

OXFORD DYNAMIC SPEAKERS

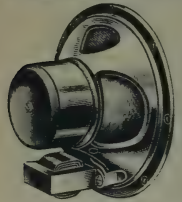
For many years the choice of leading set manufacturers; now available to the Custom-builders and Servicemen. Incorporate many features of design evolved from years of research in the speaker field. Ideal for replacing speakers of limited frequency response in radio sets, or for public address installations. Have new curvilinear cones with 8 ohm 1¼ inch voice coil. Will handle 12 watts continuously, 15 watts peak. Overall height, 14¼"; depth, 8". Shpg. wt., 19 lbs. Less output transformer.

A9537. With 6 volt 4 ohm field.
A9538. With 1000 ohm field.
A9539. With 2500 ohm field.
List. $16.90. NET EACH..... **$9.94**
A9540. A.C. Type. Ideal as extension speaker in P.A. and call systems. For use on 110 volts 60 cycle current. Less 80 tube and output transformer.
List. $25.40. NET..... **$14.94**

Jensen DYNAMIC SPEAKERS —UTAH—

JENSEN DYNAMIC SPEAKERS

NEW PERMANENT MAGNET MODELS



An entirely new line of speakers of exceptional design and construction. The fidelity and power-handling capacity of these speakers is equal to any conventional electro-dynamic type; sensitivity and efficiency are extremely high. No field energy is required, due to the use of a newly developed heavily and permanently magnetized metal alloy. These speakers are ideal for modernizing battery receivers, as well as for general radio and public address work. All speakers supplied with voice coil impedance of 6 ohms at 400 cycles and adjustable output transformer. For all tubes.

6-INCH MODEL PM6-C

Especially designed for use where extreme sensitivity and high quality reproduction are desired, as in centralized sound systems. Depth only 3⅞".

A9675. YOUR PRICE **$5.59**

8-INCH MODEL PM8-C

A popular size for use in console type radios, or for call systems, etc. Extremely sensitive, reproduces with exceptional fidelity. Only 3 13/16" deep.

A9676. YOUR PRICE..... **$5.88**

10-IN. MODEL PM10-C

Particularly recommended for superlative performance in connection with receivers and small public address installations.

A9677. YOUR PRICE **$7.50**

12-IN. MODEL PM12-C

For use with large console receivers, or medium-powered public address systems; will provide exceptionally fine reproduction.

A9678. YOUR PRICE **$9.26**

HEAVY DUTY 12-INCH MODEL PM12-B

A superior speaker for use with high-quality, large sound systems, or wherever high fidelity reproduction at high levels of volume is desired. Equal to expensive electro-dynamic speakers.

A9679. YOUR PRICE..... **$14.85**

JENSEN ELECTRO-DYNAMICS

HEAVY-DUTY MODEL B12-X

A particularly high-quality, highly-efficient 12" dynamic speaker of advanced design. Recommended for use wherever true high-fidelity performance is required. Especially suited to Public Address Systems. New curvilinear cone results in extended high-frequency range. Will handle 10 watts continuously. Equipped with hum-bucking coil and adjustable output transformer, for all tubes. 8 ohm voice coil. Shpg. wt., 14 lbs.

A9668. 1250 OHM FIELD.
A9669. 2500 OHM FIELD.
List, $17.25. YOUR PRICE EACH..... **$10.14**

MODEL "R" DYNAMICS

Famous Jensen dynamic speakers in a new compact style. Features very rugged construction and unusually fine fidelity of reproduction. With built-in hum-bucking coil. Adjustable output transformer supplied for all tubes.

A9672. 5 INCH DYNAMIC.
3000 ohm field. List, $4.00. NET..... **$2.35**

A9673. MODEL E6-R 6 INCH DYNAMIC.
2500 ohm field.
List, $5.40. NET..... **$3.18**

A9674. MODEL D8-R 8 INCH DYNAMIC.
2500 ohm field.
List, $6.65. NET..... **$3.91**

RCA-VICTOR

PERMANENT-MAGNET DYNAMIC SPEAKERS

RCA No. 9453—6 INCH MODEL

Genuine RCA-Victor quality. Midget type, ideal for use with battery radios and midget sets. Heavily built for excellent fidelity and full volume carrying capacity. Requires no field excitation. Uses new type cobalt steel magnet design. Has 5-inch cone. Overall diameter is 6½"; depth is 2⅝". Voice coil impedance, 6 ohms. Output transformer not supplied. Shpg. wt., 5 lbs.

A9450. YOUR PRICE **$3.27**

RCA NO. 9538—7½" MODEL

Has corrugated 6 inch cone and oversize magnet. 7½" diameter, 4" deep, 8 ohm voice coil. Less output transformer. Shpg. wt., 10 lbs.

A9468. YOUR PRICE **$4.50**

RCA NO. 9455—10" MODEL

Heavy-duty type. Ideal for multiple sound systems. 10¼" diameter, 5" deep, 6 ohm voice coil. Less output transformer. Wt. 12 lbs.

A9469. YOUR PRICE..... **$5.88**

UTAH DYNAMIC SPEAKERS

MODEL G12

New Utah G12 Heavy-Duty Dynamic reproducer. Designed especially for heavy-duty operation in the Public Address field. Has completely enclosed cone suspension. Oversize field requires 18 watts excitation; equipped with hum-buck coil and heavy 1½" pole piece. Massive, solid construction that insures ample power handling ability. Response is unusually fine over entire audible range. Will handle 18 watts continuously, 25 watts peak. Overall height 12½", overall depth 6½". Voice coil 8 ohms at 400 cycles. Less transformer. Available with either 2500 or 1000 ohm field. Wt., 20 lbs.

A9470. 2500 ohm field.
A9471. 1000 ohm field.
NET, EACH **$9.85**

UTAH MODEL F12 SPEAKERS

HEAVY-DUTY TYPES

A new, popular auditorium-type dynamic speaker. Designed especially to afford high-quality reproduction at high volume levels. Will handle 15 watts maximum input. Particularly suited for Public Address work. Voice coil diameter is 1¼"; 16 ohms impedance. Heavy-duty universal output transformer is included. D.C. models require 12 watts field power for full output handling ability. Shpg. wt., 14 lbs. When ordering, specify types of power tubes to be used with and how connected. Shipping weight, 14 lbs.

D.C. SPEAKERS

For use with radio sets or amplifiers having built-in field excitation supply.

A9430. 6 Volt Field.
A9431. 1000 Ohms.
A9432. 2500 Ohms.
A9433. 4000 Ohms.
List, $11.50.
NET, EACH..... **$6.76**

A. C. SPEAKER

Self-excited field type for operation from 105-120 V. 50/60 cycles A.C. Requires 1—80 tube (not supplied). Includes output transformer, either universal or 500 ohm. Specify transformer desired.

A9434.
List, $15.00.
YOUR PRICE **$11.17**

UTAH HIGH FIDELITY REPLACEMENT SPEAKERS

A new line of high fidelity speakers for either replacement or original installations. Workmanship and materials of the highest quality combined with new features of design make these the finest reproducers available at moderate cost. Solid vibration-proof construction with conservative power handling ratings provide maximum performance far superior to that obtainable from inferior types of speakers.

6½-IN. MODEL

A9472 **$3.53**

A rugged tru-toned small speaker suitable for all replacement purposes. Especially suited for use in A.C.-D.C. and midget type receivers. Handles power input of 6 watts, peak 9 watts. Requires 6½ watts field excitation. Voice coil 6 ohms. With universal output transformer; 2500 ohm field. Wt., 4½ lbs.

8-INCH MODEL

A9473 **$4.26**

For use in console receivers and small Public Address systems. Has excellent tone quality and will handle full 8 watts normally, 12 watts peak. Sturdy rattle-proof cone assembly with 8 ohm voice coil. Supplied with universal output transformer; field coil 2500 ohms. Wt., 6 lbs.

10-INCH MODEL

For use wherever exceptionally true reproduction is desired in a medium size speaker. Suitable for console type receivers and small sound systems. Will deliver brilliant reproduction without distortion at full volume. Normal input 9 watts, 13 watt peaks. Voice coil 8 ohms; field coil 2500 ohms. With universal transformer. An excellent value. Wt., 10 lbs.

A9474. NET..... **$4.70**

12-INCH MODEL

The ideal reproducer for large console sets. Has ample power handling ability coupled with the brilliant, faithful reproduction expected only from more expensive speakers. Normal input 10 watts with 15 watts peak. Voice coil 8 ohms. Requires 9 watts field excitation. With universal output transformer. Wt., 12 lbs.

A9475. 1000 ohm field.
A9476. 2500 ohm field. NET..... **$5.88**

CRYSTAL CARBON • MICROPHONES • STANDS

SHURE CRYSTAL MICROPHONES

A high grade line of new type crystal microphones. Noted for high quality sound reproduction. Extensively used for all types of P.A. work requiring exceptionally fine quality. No mike current required.

A7698. List, $37.50. NET **$22.05**

MODEL 74C "SPHEROID"

Radically new, absolutely non-directional wide-range crystal microphone of striking appearance. Specially shaped small dural diaphragm drives a new type "Grafoil" bimorph crystal unit. Sound reaches the diaphragm uniformly from any angle through 360°. Excellent frequency response is flat within 5 db. from 40 to 10,000 cycles. Output level, —55 db. Weighs only 7⅞ oz. 2¼ inches diameter. With locking plug and stand adapter having ⅝-27 thread.

75B "SPHEROID"

Wide-range response is assured in this new non-directional crystal microphone. Acoustically streamlined, with curvilinear diaphragm. Element is genuine Bimorph crystal. Fits any stand with ⅝-27 thread. Similar in appearance to Model 74C. Output —60 db.

A7730. NET... **$18.82**

A7691. List, $22.50. NET **$13.23**

MODEL 70H DIAPHRAGM TYPE

A superior crystal microphone of the diaphragm pressure-actuated type. Special cantilever principle employed aids in effectively handling music and speech. Output, —60 db. Beautiful cast chromium-plated case. Mounts directly on mike stands having ⅝-27 threaded shaft, or may be spring-mounted by means of hooks supplied. 3 in. diameter; 1¼ in. thick. Supplied complete with 7 ft. shielded rubber-covered cable. Model 70H is ideally suited for stage or theatre sound systems because of its extreme sensitivity.

WITH 25 FT. CABLE

A7690. The same high quality microphone as the Model 70H listed above, but with 25 ft. of special rubber-covered shielded microphone cable already attached. NET..... **$14.29**

ASTATIC CRYSTAL MICROPHONES

Newly developed, exceptionally well-built crystal microphones. Feature excellent frequency response characteristics and relatively high output level. Ideal for all high quality public address work. The complete listing below covers practically all P.A. requirements.

A2190. List, $22.50. NET **$13.23**

MODEL D-104 STANDARD TYPE

A new improved crystal microphone of rugged construction. Uses a Piezo Crystal element. Practically indestructible. Responds equally well in any position. No hiss or background noise. Has excellent frequency response essentially flat from about 40 to 10,000 cycles; output level —65 db. High impedance; may be connected directly to tube grid. No field or button current required. Can be coupled directly into grid of amplifier input, or capacity-coupled by means of conventional condenser and grid load resistor. Housed in an attractive chromium case, 3 in. diameter; 1 in. thick. Supplied with 8 ft. rubber covered shielded cable and handy mounting hooks. Threaded for ⅝-27 stands.

A2192. List, $25.00. NET **$14.70**

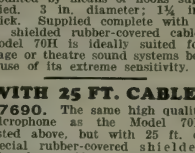
MODEL D-2 WATCH CASE TYPE

A small, light crystal microphone of exceptionally good frequency response characteristics. Uses a newly perfected Grafoil Bimorph Crystal and new dual diaphragm design. Non-directional; feedback tendency is reduced to a minimum. Remarkable frequency response is flat from 50 to 6000, with rising characteristics to 10,000 cycles. Output level —60 db. Very attractively finished in beautiful chromium. Sturdy, rugged construction. Case is extremely compact; only 2½ inches in diameter, ½ inch thick. Threaded for ⅝-27 stands. Shpg. wt., 2 lbs. With 8 ft. cable.

A2193. D-2 Microphone as above, but with 25 ft. cord. NET..... **$15.76**

Ultra Wide-Range Crystal Mikes

New Shure microphones providing reproduction from 40 to 10,000 cycles, with amazing response fidelity. New type crystal mounting provides the highest output level consistent with good fidelity; single curvilinear diaphragm is of high efficiency, acoustically correct design. Diaphragm is protected even when case is opened, by internal screen. Crystal is moisture-sealed; scientifically designed acoustic network provides full barometric compensation. All models have standard ⅝"-27 thread for stand mounting; have 7 ft. shielded rubber-covered cable.



A7717. 702A. Spherical semi-nondirectional type, 2¼" overall diameter. Rubber-black finish with chromium trim. Shpg. wt., 1 lb.

A7715. 700A. Semi-directional type. Swivel arrangement for tilting head. Chromium finish. 2⅝" diameter. Shpg. wt., 2 lbs.

A7716. 701A. Grill type case; rubber black screen covers with chromium trim. 3½"x2¼"x1¾". Shpg. wt., 1 lb. **List Each, $25.00. NET EACH.....** **$14.70**

A7729. 60C. Crystal Contact Mike. For special sound and vibration pickup, such as Musical instrument and Machine noise reproduction. Size 1¾"x1"x¾". Shpg. wt., 10½ oz. With 7 ft. cable. **NET..... $13.23**

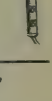
LAPEL CRYSTAL MICROPHONE

A new dual-diaphragm, lapel type crystal microphone. Bronze case is finished in dull black; only 1½" in diameter, ½" thick. Microphone weighs only one ounce, exclusive of cable, and is fitted with spring clip. Output, —68 db. with a frequency response flat from 50 to 6000 cycles. Non-directional; with greatly reduced feedback tendency. Element is genuine Grafoil Bimorph crystal. Supplied with 25 ft. shielded, braid-covered cable.

A2188. List, $25.00. YOUR PRICE. **$14.70**

D-2-H HAND MICROPHONE

A utility hand microphone built around the D-2 Watch Case model listed at top right of page. Has handsome, rugged metal handle, finished in bright chromium. Utilizes dual-diaphragm principle, with the newly perfected Grafoil-Bimorph crystal unit, providing excellent response from 50 to 6000 cycles. Ideal for portable transmitters, mobile sound systems, etc. With 6 ft. shielded rubber-covered cable.



A2183. YOUR PRICE..... **$16.17**

A2184. MODEL D-2-HS. Same as above but with switch. NET..... **$16.46**

BRUSH BR2S SOUND CELL CRYSTAL MICROPHONE

A high-quality, low-priced spherical microphone of compact, light-weight design. The special generating agent consists of two distinct piezo-electric sound cells connected in a balanced series circuit. Has excellent frequency response, with output of —66 db. Ideal for P.A., broadcast, police, amateur and commercial use. Only 2⅛" diameter. Finished in beautiful dull chromium plate. Furnished with locking type plug and socket connector. No cable is supplied.

A2187. YOUR PRICE..... **$27.93**

MICROPHONE STANDS

SHURE MODEL S54B

An inexpensively-priced, high grade floor stand. Made in three sections, adjustable from 25½ to 62½ inches. Automatic friction lock holds sections firmly when extended. Moderistic base is 10⅝" in diameter. Tubing is finished in attractive rubber-black with chromium trim; base is finished in black "wrinkle" enamel. Top of stem is threaded ⅝-27 to accommodate all crystal and velocity microphones. A very popular unit for use with portable P.A. systems because of its small size when extensions are lowered. Wt., 8¾ lbs.

A7739. List, $10.00. YOUR PRICE..... **$5.88**

MODEL S32C

Modernistic desk stand. Adjustable from 7" to 11"; automatic friction lock. Black finish; chrome base trim. Threaded ⅝-27. Wt., 3¾ lbs.

A7733. List, $6.50. NET..... **$3.82**

MODEL S41A

A high quality 10" banquet stand finished in polished nickel plate. Base is 4¼" diameter with side opening for cord. ⅝-27 threaded stem. Wt., 1¼ lbs.

A7740. List, $3.50. NET..... **$2.06**

MODEL M S56A

Highest quality, attractive floor stand. Height is adjustable from 43 to 69 inches. Extension section is gripped firmly by the exclusive Shure Automatic Friction Clutch. Lock tension is adjusted by rotating chromium collar at top of barrel. The professional appearance of the black Japan rubber finish blends into any setting. Round 10¼" base. Stem has standard ⅝-27 thread for all crystal and velocity mikes. Weight, 12½ lbs.

A7735. List, $13.50. NET..... **$7.94**

UNIVERSAL MICROPHONES

MODEL "XX" TWO BUTTON TYPE

A7550. List, $10.00. NET **$5.88**

Develops truly faithful, natural tone. Has good frequency range. Equipped with Duralumin diaphragm, pure gold contacts. Ruggedly built, 200 ohms per button.

MODEL "X"

A7551. Similar in design to above but of single button type. A high quality unit. NET..... **$4.41**

MODEL "BB"

Double button microphone with protected stretched diaphragm. Frequency range, 50 to 5,000 cycles. 200 ohms per button. 3 inch diameter.

A7552. NET.. **$14.70**

MODEL "W" LAPEL MICROPHONE

A7555. List, $3.00. NET **$1.76**

Very compact, sensitive lapel microphone. 200 ohm single button. Gold spot center diaphragm. Size, 1⅞x8¼ inches.

2 BUTTON HAND MICROPHONE

Equipped with "on-off" switch in handle. Excellent for portable work, Sound Trucks, etc. Standard two-button type. Output, —55 db. With 6 ft. cable.

A7299. List, $15.00. NET..... **$8.82**

KNIGHT MICROPHONES

STANDARD TWO BUTTON
A7562.
$2.95

A rugged, well-constructed microphone at a surprisingly low price. Frequency range is from 40 to 3500 cycles resulting in natural tonal reproduction of voice. Diaphragm is of selected Duralumin stretched at correct tension between the two halves of the heavy cast metal case. Standard 200 ohms per button.

DE LUXE TWO BUTTON
A7643.
$4.35

Outstanding in value, this is one of the finest low-priced double button microphones available. Has essentially flat frequency response from 45 to 7000 C.P.S. Impedance is 200 ohms per button. High quality stretched duralumin diaphragm with gold-spotted centers. Case is 3" in diam.; ⅞" thick. Satin-nickel finish.

Knight Microphone Stands

Attractive professional type two-piece telescoping floor stands. Sure-grip friction clutch permits quick, easy adjustment of height from 47½ to 72 inches. Ideal for all types of Sound Systems. Heavy cast base weighs 10 lbs. Microphone cable can be run through hollow stem if desired. Top stem threaded ⅝-27. Less mike. Shpg. wt., 17 lbs.

STANDARD MODEL
An unusual value in a high quality stand. Sturdily made, has smooth sure-grip adjustable clutch. Stem attractively finished in chrome; has step-type modern base finished in black crystalline.
A9991. NET..... **$3.95**

DE LUXE MODEL
Beautifully polished chrome finished stem and base. Has "one-hand" adjustment with non-slip friction clutch. Especially suited to those installations which require a sturdy serviceable stand.
A9990. NET..... **$4.95**

MICROPHONE RING

Carbon microphone ring for use with either of the floor stands listed above. Chrome finish. Ring is 6½" in diam., threaded ⅝-27 to fit all standard floor stands. Complete with 8 suspension springs.
A9984. NET..... **85c**

"Mike" Stand Adapters

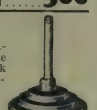
A9948. Adapts old Astatic, Brush and Turner mikes to Knight floor stands. ⅝-27 female to ⅛" male pipe thread. Chrome-plated. NET..... **25c**

A9949. For Amperite SR-80, RCA Velocity, Universal Dynamic, etc. ⅝-27 to ½" pipe. Chrome-plated. NET..... **30c**

Knight Desk Stands

Attractive modernistic style desk stands suitable for studios, P.A. systems, and portable sound systems. Base finished in neat black crackle finish. Two types; will handle all carbon, crystal, or velocity microphones.

CARBON MIKE STAND
Has octagonal 5⅜" ring for suspension of carbon microphone. Height overall is 9 inches. Complete with 8 springs.
A9158. NET..... **$1.18**



CRYSTAL MIKE STAND
For all crystal or velocity mikes. Has chrome-plated stem threaded ⅝-27 at top. Overall height 8". Heavy cast base.
A9983. NET..... **$1.25**

AMPERITE VELOCITY MICROPHONES

A complete line of high-quality ribbon-velocity microphones. Compact streamline construction incorporates the latest features of acoustic design. Unexcelled for fidelity of reproduction; designed to minimize feedback, hum pick-up and extraneous noises. Has swivel mounting brackets with built-in rubber shock absorber; threaded ⅝-27.

A2272. MODEL RB-Mn. For high quality speech and music reproduction. Frequency range from 40-11000 CPS. Output 200 ohms; —64 DB. Has built-in switch and locking type cable connector. With 25 ft. cable.

A2273. MODEL RB-Hn. Same as Model RB-Mn above but high impedance output of 2000 ohms to feed directly into tube grid.

A2274. MODEL RB-Bn. Directional type. Ideally suited to theater stage installations. Frequency range flat from 40-1100 CPS. Output 200 ohms; —67DB. With switch and 25 ft. cable.

A2275. MODEL RB-BHn. Same as Model RB-Bn above but high impedance type, 2000 ohm output. List, $42.00.
NET EACH **$24.79**

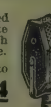
A2278. MODEL RB-Dln. Dual impedance velocity microphone. Has both 200 ohm and high impedance outputs to match any amplifier. May be used with cable lengths up to 2000 ft. List, $45.00. NET..... **$26.49**

A2270. MODEL RB-Sn. For all-around speech and music reproduction. Frequency range 60-7000 CPS. Output 200 ohms; —68 DB. With 12 ft. cable and built-in switch.

A2271. MODEL RS-Hn. As above, but with high impedance output of 2000 ohms.
List, $32.00. NET EACH..... **$18.81**

A2268. MODEL RAL. A high quality moderately priced ribbon velocity microphone of typical high quality Amperite construction. Has unusually fine frequency response for both voice and music. Output 200 ohms, —68 db. 8 ft. of cable.

A2269. MODEL RAH. As above but high impedance to connect directly to tube grid. Output 2,000 ohms. 12 ft. of cable.
YOUR PRICE, EACH..... **$12.94**



JUNIOR (LAPEL) VELOCITY

Small in size but capable of really high quality performance. Reproduction is lifelike and clear. Flat response from 60 to 7500 CPS for all voice work. Output —68 db. Size only 2⅛x1⅝x¾ in. 25 ft. cable.

A2276. 200 ohm Model.
A2277. High Impedance Model.
List, $30.00. NET EACH..... **$17.64**

EXTERNAL INPUT TRANSFORMER

New line coupling transformer. Permits use of low impedance velocity microphones with amplifiers having high impedance input circuits. Has balanced hum bucking windings.
A2279. List, $5.50.
NET **$2.94**

REPLACEMENT RIBBONS

A2233. STANDARD. Package of 2 ribbons. List, $1.25. NET..... **73c**

A2234. SUPERSENSITIVE Package 2 ribbons. List, $1.75. NET..... **$1.03**

ELECTRO-VOICE VELOCITY MICROPHONES

SERIES V

Quality constructed ribbon-velocity type microphones for high-fidelity sound work. Advantageous directional characteristics are ideal for eliminating background noises and feed-back. Ribbon is suspended internally on a shock-proof mounting. Genuine cobalt magnets used. Transformer is included. Supplied in either 200 ohm output impedance or high impedance for direct coupling to grid. Supplied with 20 ft. shielded cable.

MODEL V-2

An excellent velocity microphone with basically flat frequency response up to 14,000 C.P.S. Cradle support threaded ⅝"-27. Output —68 db.

A2195. STANDARD IMPEDANCE. 200 OHMS.

A2197. HIGH IMPEDANCE. 50,000 ohms at 1,000 cycles.
List, Each, $35.00.
NET EACH **$20.58**

MODEL V-4

The finest velocity microphone available. Developed for the exacting requirements of Broadcast and Recording service. Cradle mounting; output —62 db.

A2235. STANDARD IMPEDANCE. 200 OHMS.

A2236. HIGH IMPEDANCE. To feed directly into grid.
List, Each, $75.00.
NET EACH **$44.10**

MODEL V-3

High quality velocity microphone for ultra-faithful sound work. Equipped with cradle, swivel, cable, and plug. Excellent frequency response characteristics, cut off begins at 14,000 C.P.S. Output —66 db.

A2196. STANDARD IMPEDANCE. 200 OHMS.

A2198. HIGH IMPEDANCE. 50,000 ohms at 1,000 cycles.
List, Each, $50.00.
NET EACH **$29.40**

MODEL V-15

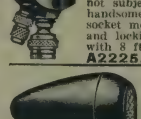
"Communication Special." For high-quality voice transmission. Response, 40—12000 C.P.S.; output —64 db. High impedance (direct to grid). Complete with modernistic desk stand and 10 ft. cable. Has locking cradle design.

A2238.
List, $37.50.
NET **$22.05**

Bruno Velotron Microphone

A new high fidelity microphone built on the static-velocity principle. Combines the high fidelity reproduction of the ribbon velocity microphone with the high sensitivity of the condenser type. May be used successfully with any amplifier of either the high or low gain type. Requires approximately 250 volts for polarizing voltage; leakage drain is less than one milliampere. Output is —50 DB. Frequency response 30 to 14000 CPS normally, but can be altered to favor either high or low end of response curve by changing polarizing voltage. Highly directional; ideal for boost installations with imperfect acoustic conditions. May be used with cable lengths up to 500 feet without affecting operation. Thoroughly shielded; not subject to hum or high frequency pickup. Enclosed in handsome unusual finish grill. Equipped with ⅝-27 thread socket mounting, ball swivel, built-in rubber shock absorber and locking type cable connector. Complete with 8 ft. cable.
A2225. List, $20.00. YOUR PRICE.... **$11.76**

"Bullet" Dynamic Mikes



New design eliminates feedback, improves frequency response and makes unit highly directional.

MODEL TR-2

Standard model. Output —40 DB. Response plus or minus 2 DB from 20 to 8000 CPS. Size, 6¾" long, 3¾" diam. With ⅝-27 coupling and 15 ft. cable. Wt., 2½ lbs.
A2160. 200 ohm.
A2161. 50,000 ohm.
List, $39.50. NET, EACH..... **$23.23**

MODEL TR-3

Has essentially the same characteristics as Model TR-2 above, but differs in size. Only 5" long, 3" diam. Output —45 DB. ⅝-27 mounting. 10 ft. cable. Wt., 2 lbs.
A2162. 200 ohm.
A2163. 50,000 ohm.
List, $24.50.
NET EACH **$14.41**

MODEL TR-4

For use in Recording and Broadcasting studios. Response essentially flat from 20 to 10,000 CPS. 6¾" long, 3¾" diam. Output —39 DB. ⅝-27 mtg. 25 ft. cable. 2½ lbs.
A2164. 200 ohm.
A2165. 50,000 ohm.
List, $90.00.
NET EACH **$52.92**

MICROPHONES and ACCESSORIES

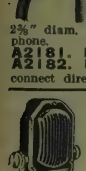
NEW AMERICAN DYNAMIC MICROPHONES

An all-purpose dynamic type microphone especially suited to installations having abnormal acoustic conditions. Output impedance, 40 ohms (—60 DB); may be used with cable lengths up to 150 feet. Semi-directional; housing sealed against pressure and temperature changes. No polarizing voltage required; excitation supplied by new high-flux permanent magnet. Equipped with tilting bracket to fit ⅝-27 thread. Streamlined case finished in baked black enamel. Size, 3⅜" long, 2⅝" diam. Complete with 25 ft. cord and plug at microphone.

A2181. Model D5. 40 ohm. NET **$16.17**

A2182. Model D5T. 2000 ohm. High impedance to connect direct to grid. **NET** **$19.11**

NEW UNIVERSAL VELOCITY MICROPHONES



A new line of velocity microphones combining superlative performance with striking appearance; ideal for use on stage or in the studio. Frequency response is flat from 40 to 10,000 C.P.S. Output, —83 db. Finished in black enamel and chrome plate. Measures only 2¾x5⅜x1¾". With lock type polarized stand plug; has ⅝"-27 thread.

MODEL RL

With built-in transformer for matching 200 ohm line—will work into regular single button microphone channel. Shpg. wt., 4 lbs. A fine fidelity microphone.

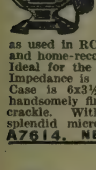
A7558. List. $24.25. YOUR PRICE **$14.26**

MODEL RH

High impedance type. Works direct to grid of first tube without matching transformer. For use with all amplifiers having a gain of 85 db. and over.

A7559. List. $24.25. YOUR PRICE **$14.26**

RCA TWO BUTTON MICROPHONE

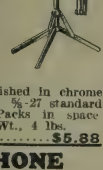


A7614. YOUR PRICE **$4.41**

Genuine RCA quality 2 button microphone. Same as used in RCA Transmitters, P.A. and home-recording equipment, etc. Ideal for the amateur transmitter. Impedance is 200 ohms per button. Case is 6x3½x2 inches, and is handsomely finished in dark brown crackle. With flexible cord. A splendid microphone value.

A7614. NET **$4.41**

ORCHESTRA MIKE STAND



A7561. YOUR PRICE **$5.88**

Three section collapsible stand with maximum height of 66" and minimum of 25". Can be used as either floor or banquet microphone stand. Finished in chrome and cadmium. ⅝-27 standard thread at top. Packs in space only 3"x3"x20". Wt., 4 lbs.

A7561. NET **$5.88**

CRYSTAL MICROPHONE VOLUME CONTROLS

For smooth, noiseless control of crystal microphone volume. Uses new capacity attenuator method of control. Finished in rubber black with chrome and black "Volume" escutcheon. Has convenient On-Off toggle switch in addition to volume control. Measures only 4x2x2". Fits any standard mike stand that has ⅝"-27 threaded stem.

MODEL V11A

Coupling type. Has ⅝-27 hole at bottom and ⅝-27 stud. Complete with 25 ft. single conductor rubber-jacketed shielded cable.

A7711. List. $12.50. NET **$7.35**

A7713. Model V12A. Same as above except complete with 50 ft. single conductor rubber-jacketed cable. NET **$8.82**

MODEL V21A

Demountable type. With receptacles for Shure microphones of the 74C and 70H-79AC type. With 25 ft. S.C. rubber-jacketed cable.

A7712. List. $12.50. NET **$7.35**

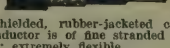
A7714. Model V22A. As above except complete with 50 ft. single conductor rubber-jacketed cable. NET **$8.82**

SHURE STAND SWITCH

Stand-mounting switch for use with any microphone. In black aluminum case 2½" high. Has ⅝" 27 thread. Model A80A.

A7695. List. $2.50. YOUR PRICE **$1.47**

CRYSTAL MICROPHONE CABLE



Shielded, rubber-jacketed cable. Conductor is of fine stranded copper; extremely flexible.

SINGLE CONDUCTOR

A2499. 100 Ft. ..... $3.45 PER FOOT **4c**

DOUBLE CONDUCTOR

A2498. 100 Ft. ..... $6.40 PER FOOT **7c**

WEATHERPROOF MICROPHONE CABLE

Heavy rubber jacket over tinned copper shielding. Ideal for outdoor and heavy duty service.

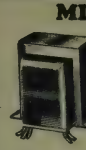
No.	Cond.	NET Per Ft.	NET 100 Ft.
A3514	2	3½c	$2.70
A3515	3	4c	$3.75

Microphone Springs

High grade tempered spring steel. Loop ends. Cadmium-plated finish.

A7557. NET, SET OF 8 ..... **15c**

MICROPHONE Coupling Transformer

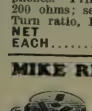


A6050. SINGLE BUTTON TYPE. Has primary for standard 200 ohm single button microphone; secondary for coupling to tube grid. Completely shielded.

A6051. TWO BUTTON TYPE. For all two button type microphones. Primary impedance, 200-200 ohms; secondary to tube grid. Turn ratio, 1 to 45.

NET EACH **$1.15**

MIKE RECEPTACLES



Wall-type polarized receptacles for use with A7579 plug (shown at right bottom). Ideal for permanent sound installations in Schools, Theatres, Auditoriums, etc. Two types are available: One is a small receptacle only; the other is a receptacle with 4" round cover for standard conduit junction boxes.

A5485. Receptacle only. NET **78c**

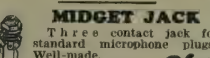
A5486. With 4 inch Cover. NET **$1.15**

MIKE RECEPTACLE AND PLATE

A polarized microphone receptacle mounted on a bakelite single-gang plate for flush wall mounting. Measures 2¾" x4¾".

A5487. NET **$1.18**

3 Way Microphone Plug and Jacks



High grade 3 circuit plug with bakelite handle. Long jack with phosphor-bronze spring to accommodate plug. ⅝ inch mounting.

A8957. PLUG. NET **40c**

A8958. JACK. NET **26c**

MIDGET JACK

Three contact jack for standard microphone plugs. Well-made.

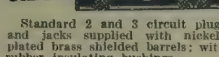
A1605. NET **26c**

PORTABLE JACK

Accurately made to receive any standard 3 way microphone plug. Black molded bakelite barrel. Fully insulated.

A5665. NET **38c**

SHIELDED PLUGS AND JACKS



Standard 2 and 3 circuit plugs and jacks supplied with nickel-plated brass shielded barrels; with rubber insulating bushings.

2 CIRCUIT

A5666. PLUG.
A5667. JACK.
YOUR PRICE, EACH **59c**

3 CIRCUIT

A5668. PLUG.
A5669. JACK.
YOUR PRICE, EACH **73c**

ACCESSORIES

CONNECTORS

Ideal for quick, sure connection of microphones to any sound equipment. Polished chrome-finished heavy brass shells, fitted with sturdy plugs and receptacles. Male and female threads are ⅝"-27.

CABLE TYPE PLUGS

A1965. 3 PRONG. NET **59c**

A1966. 4 PRONG. NET **65c**

RECEPTACLES

A1967. 3 CONTACT. NET **59c**

A1968. 4 CONTACT. NET **65c**

STAND TYPE

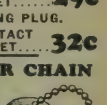
For use with cable types above; has ⅝"-27 female thread for mounting on microphone stand.

RECEPTACLES

A1969. 3 CONTACT. NET **59c**

A1970. 4 CONTACT. NET **65c**

CHASSIS TYPE



Mounts in 1 3/16" chassis hole; for use with above cable connectors when connection is made at amplifier. With knurled ring, lock washer and hex locking nut.

A1971. 3 CONTACT RECEPTACLE. NET **29c**

A1972. 4 PRONG PLUG.

A1973. 4 CONTACT RECEPTACLE. NET **32c**

CONNECTOR CHAIN AND CAP

Fits cable and chassis type connectors above; protects plugs and receptacles from dirt and tampering.

A1974. NET **29c**

Microphone Shock Absorber

Prevents floor vibration from reaching microphone. Substantial; sturdy; made of heavy brass, in polished chrome finish. With live gum rubber cushions. ⅝"-27 threads, male and female.

A1975. NET **59c**

ARMORED MIKE CONNECTORS

Heavy, sturdily constructed connectors for microphone cables. Polarized type; connections cannot be reversed when joining cable lengths. Have adjustable cable clamps. Knife blade type contacts make positive connection and will handle up to 10 Amps. at 250 volts. The most rugged and efficient connectors made.

A7578. 3 Prong Socket. NET **64c**

A7579. 3 Prong Plug. NET **48c**

CARBON GRANULES

Laboratory-made quality carbon granules. No. 100 size. Sufficient to recarbon two double-button microphones.

A7556. YOUR PRICE **55c**

PHONO PICK UPS • RECORDS • CHANGERS

KNIGHT HIGH IMPEDANCE PICKUP

An outstanding value in high quality phonograph pickups. Has exceptionally fine frequency response characteristics and high output. Will reproduce with high fidelity all standard phonograph records. Needle scratch is reduced to an absolute minimum. This is an ideal pickup for use in sound systems, phonograph combinations, and for modernizing older type phonographs. Simple to mount. Accurately balanced for correct needle pressure. Has unusually attractive finish.

Clear Brilliant Reproduction at Low Cost

A2296 YOUR PRICE $3.85

EXCELLENT QUALITY

A Hi-Fidelity magnetic type pickup of highest standards. Uses high percentage cobalt magnet for superior performance. Features extremely flat frequency response over a wide range. Reproduction is brilliant and clear. Excellent for all phonograph requirements. For use with 50,000 ohm volume control for uniform response. With 10,000 ohm control, bass will be accentuated. High impedance type, high level of output. Ruggedly built, yet extremely light in weight. Length overall 8½ in. Supplied with 18" connecting cord.

A2295. Knight High Impedance Pickup. NET..... **$3.85**

POPULAR RECORD ASSORTMENTS

CARTONS OF 25 DOUBLE-FACED RECORDS

Famous brands American record assortments at real savings. Unexcelled for dealer demonstrations and public address use. Packed 25 assorted records to the carton. Includes recordings by famous American artists; vocal, instrumental, band, dance orchestra, etc. These assortments represent unusual value. Because these assortments reach us already packed, we cannot determine what titles are in each assortment; all recordings are, however, by famous artists, dance orchestras and bands. Shpg. wt., 13 lbs.

A9999. Carton of 25 Assorted. YOUR SPECIAL PRICE..... **$2.25**

FOREIGN RECORDS

Popular selections of foreign language recordings. 25 assorted to the carton.

A9998. Spanish.
A9993. Swedish
A9994. German.
A9995. Bohemian.
A9996. Italian.
A9997. French.

PER ASSORTMENT OF 25 RECORDS **$3.50**

NEW WEBSTER CRYSTAL PICKUPS

A new crystal pickup of greatly advanced design. Has exceptionally fine response characteristics and unusual freedom from needle noise. Sturdy arm is very light in weight.

STANDARD MODEL

An excellent crystal pickup featuring new principles of design and construction. Frequency response, 40 to 5,000 C.P.S., and will play brilliantly all 33⅓ and 78 R.P.M. records. Voltage output, 1.5 volts. Imp., 180,000 ohms at 1000 cycles.

A2296. Less volume control. List, $11.00. NET..... **$6.47**

A2297. With volume control. List, $12.00. YOUR PRICE..... **$7.06**

HIGH FIDELITY MODEL

Similar to the standard model described above, but with response flat within 2 db. from 40 to 5000 cycles, with a constantly rising output from 5000 to 8000 cycles.

A2298. Less volume control. List, $12.75. YOUR PRICE..... **$7.50**

A2299. With volume control. List, $13.75. NET..... **$8.08**

NEW WEBSTER MAGNETIC PICKUPS

HIGH FIDELITY

Plays Both 78 and 33⅓ R.P.M. Records. Frequency Response 100-7000 C.P.S. A Remarkable Pickup Value.

MODEL 30-A2

A new improved wide range pickup. Reproduces extended frequencies for faithful response. Will clearly and brilliantly play all records up to 12 inches in size. Perfectly balanced for high fidelity reproduction.

STANDARD IMPEDANCE

The 30-A2 Standard model has an impedance of 9,100 ohms, and delivers .5 volt output. Replaces any standard high impedance pickup. Golden-bronze finish.

A2290. Without volume control. List, $8.75. YOUR PRICE..... **$5.05**

A2291. With volume control. List, $9.75. YOUR PRICE..... **$5.65**

HIGH IMPEDANCE MODEL

The new 31-A4 model has an impedance of 36,500 ohms, and an output of 1 volt. May be used with low-gain audio amplifiers. Size and appearance same as Model 30-A2.

A2292. Without volume control. List, $9.75. YOUR PRICE..... **$5.65**

A2293. With volume control. List, $10.75. YOUR PRICE..... **$6.05**

GENUINE RCA-VICTOR PHONOGRAPH NEEDLES

A7613. Soft Tone. 100 to pkge.
A7605. Half Tone. 75 to pkge.
A7606. Full Tone. 100 to pkge.
A7607. Loud Tone. 100 to pkge.
Per Pkge., 10c. 10 Pkgs. for..... **75c**

A7608. Chromium. 78 RPM. 6 to pkge.
A7609. Chromium. 33⅓ RPM. 6 to pkge. PER PKGE..... **25c**

A7610. Tungstone. Full Tone. 8 to pkge.
A7611. Tungstone. Loud Tone. 8 to pkge. PER PKGE..... **25c**

A7612. Home Recording Needles. 8 to pkge. YOUR PRICE PER PKGE.. **25c**

PERMO POINT NEEDLE

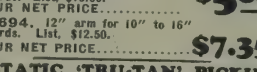
A7620. Plays over 2000 records. Fits record groove perfectly. Prolongs record life. EACH, 60c. In Lots of 5, EACH.... **50c**

NEEDLE CUP

Attractive, well-made needle cup. Will fit any 1¼ inch round opening.

A7601. NET **5c**

ASTATIC PIEZO-CRYSTAL PICKUPS

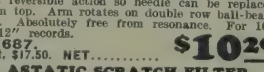


A real "high-fidelity" pickup using a genuine bimorph crystal element for brilliant reproduction. Frequency response is exceptionally flat and without objectionable peaks. Carefully counter-balanced to exert only 2¾ ounces of pressure on needle point. May be connected to grid of tube, or transformer coupled to line.

A7693. 8" arm for 10" or 12" records. List, $10.00. YOUR NET PRICE..... **$5.88**

A7694. 12" arm for 10" to 16" records. List, $12.50. YOUR NET PRICE..... **$7.35**

ASTATIC 'TRU-TAN' PICKUP



New Professional High-Fidelity Crystal pickup for use wherever the finest reproduction is desired. New offset head holds needle true to tangent through entire record playing surface; has reversible action so needle can be replaced from top. Arm rotates on double row ball-bearing. Absolutely free from resonance. For 10" or 12" records.

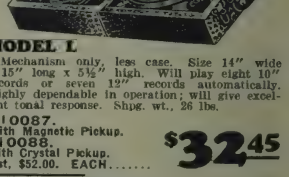
A7687. List, $17.50. NET..... **$10.29**

ASTATIC SCRATCH FILTER

A7688. For crystal pickups. Tuned to resonate at scratch frequency. Sealed in metal can, 1x1¼x2". NET..... **88c**

PACKARD AUTOMATIC RECORD CHANGERS

A completely dependable Automatic Record Changer; two speed type; will play either 78 or 33⅓ R.P.M. records. Last record will repeat until mechanism is turned off. May be set to repeat or reject any record at will. Motor is governor-controlled, induction type. Operates without noise. Available with either high impedance magnetic pickup or with crystal pickup, either type assuring the very best fidelity of reproduction. For 110 Volts, 60 cycles A.C. operation. Available as mechanism only or in portable case. See below for listings.



MODEL K

Mechanism only, less case. Will play eight 10" records automatically on one side; 12" records may be played manually. Requires mounting space 12" long, 5½" high, and 12" wide. For 110 Volts, 60 cycles. Wt., 26 lbs.

A10085. With Magnetic Pickup.
A10086. With Crystal Pickup. List, $45.00. EACH..... **$27.81**

MODEL L

Mechanism only, less case. Size 14" wide x 15" long x 5½" high. Will play eight 10" records or seven 12" records automatically. Highly dependable in operation; will give excellent tonal response. Shpg. wt., 26 lbs.

A10087. With Magnetic Pickup.
A10088. With Crystal Pickup. List, $52.00. EACH..... **$32.45**

IN PORTABLE CARRYING CASES

The Packard Record Changer mechanisms, as listed above, are also available in attractive black leatherette-covered carrying cases, of sturdy, durable design and construction. Ideal for use with portable public address systems, or for demonstration purposes.

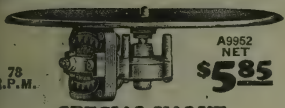
MODEL K

A10090. With Magnetic Pickup.
A10091. With Crystal Pickup. EACH **$32.25**

MODEL L

A10092. With Magnetic Pickup.
A10093. With Crystal Pickup. EACH **$37.20**

PHONO MOTORS · RECORD PLAYERS · PICK UPS



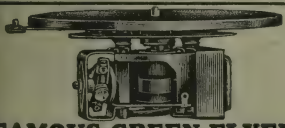
78 R.P.M.

A9952 NET **$5.85**

SPECIAL VALUE PHONO MOTOR

A brand-new self-starting synchronous type single speed phono motor. Designed along advanced principles. Absolutely dependable; quiet in operation. Maintains constant speed regardless of line voltage variations. Has 12 inch felt-covered turntable. Mounts easily with three screws. Shpg. wt., 5 lbs.

A9952. YOUR PRICE ONLY.... $5.85



FAMOUS GREEN FLYER PHONO MOTORS

SINGLE SPEED—78 R. P. M.

A high quality phonograph motor for 78 R.P.M. records. Heavy-duty governor-controlled induction type motor. Operates quietly at constant speed. Equipped with 10 inch turntable and speed control lever. For operation on 110 Volts, 50-60 cycles A.C. Mounting, 6¾x4⅛". Complete with mounting hardware.

A10070. List, $13.00.
YOUR PRICE **$7.35**

2 SPEED: 33⅓-78 R. P. M.

Heavy-duty type as above. Plays both 33⅓ and standard 78 R.P.M. records. Lever shifts speed instantly. 12" turntable. Mounts in 8⅛x5⅜" cutout. Mtg. center, 3¼x6¼. 110 volts, 60 cycles.

A10072. List, $16.50.
12" Turntable. NET..... **$9.70**

A10071. Same as above, but with 10" turntable. List, $16.00.
NET **$9.41**

UNIVERSAL 110 V. A.C.-D.C.

Single speed 78 R.P.M. type. Has A.C. to D.C. changeover switch. With 12" turntable.

A10073.
YOUR PRICE **$11.47**

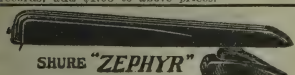
6 VOLTS D. C.

Two-speed type. Operates from 6 volt storage battery at 2.8 amps. Has 12 inch turntable.

A10074.
List, $24.00. NET..... **$14.10**

WEIGHTED 12' TURNTABLE

For a special heavy turntable for 33⅓ R.P.M. records, add $1.03 to above prices.



NEW SHURE "ZEPHYR" CRYSTAL PICKUP

A new crystal pickup with many features. Uniform frequency response from 50 to 10,000 cycles. 80,000 ohms impedance; connects direct to grid. "Aero-Stream" design. New "needle-tilt" feature keeps needle tangent to, and centered in the record groove. This feature together with the low needle pressure of 2½ ounces, makes for minimum wear and lowest possible background noise. In bakelite housing; with 3½' cord.

A7736. List, $12.00. NET..... **$7.06**

RCA-VICTOR PICKUP HEADS

Genuine RCA-Victor replacement heads.

A9496. RCA 9676, for RE 45 and RE 75. Imp. 400 ohms.
YOUR PRICE.. **$3.30**

A9495. RCA 9666. For Model 331. Impedance 30 ohms.
YOUR PRICE **$3.30**

A7326. New Pick-up Transformer. 30 ohms to grid. A well-made unit.
YOUR PRICE **$2.20**

RCA-VICTOR RECORD PLAYER

An ingenious and inexpensive little instrument built by RCA-Victor. Makes an ideal record player for use in adapting radio sets to fine phonograph performance. May be used in conjunction with the RCA RK24 Phonograph Oscillator, or may be directly connected to the radio receiver. In sets with low audio gain the Oscillator must be used. The ready portability of the RCA Record Player also adapts it for effective use with portable A.C. sound equipment.

MODEL R-93

A9499 NET **$10.72**

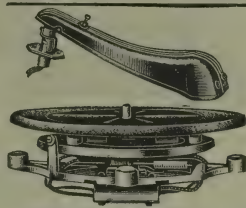
PORTABLE ELECTRIC OPERATION

The RCA Record Player consists of an electrically driven, constant speed turntable capable of playing either ten- or twelve-inch records, and a modern electrical pickup. Motor operates on 110 volt 60 cycle current. A volume control extends out of one end of the case.

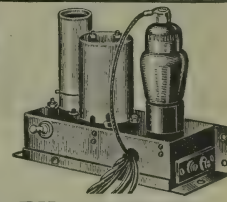
CAN BE USED WITH ANY RADIO RECEIVER

Sell extra entertainment profitably by means of the RCA-Victor Phonograph Record Player. Easily connected to any radio receiver. Housed in an attractive walnut finished chest, only 10⅞x8x5 inches.

A9499. MODEL R-93. NET EACH..... **$10.72**



RCA



SELL PROFITABLE PHONO INSTALLATIONS TO RADIO SET OWNERS

PHONO MOTOR AND PICKUP ASSEMBLY

An exceptionally compact motor and pickup of excellent design, same as used in the RCA-Victor Model 300 Radio-Phonograph Combination. May be used with any amplifier or radio set where space is limited. Synchronous motor is only 7" in diameter, 2½" deep. Manual starting. Operates constantly at 78 R.P.M. for standard record reproduction. For 105-125 volt 60 cycle operation. The pickup is only 6¾" long, but its performance equals a standard unit. Has excellent frequency response. Imp. is 2500 ohms.

A9447. MIDGET MOTOR. Part No. 9038. For 105-125 volt 60 cycle operation. List, $8.00. NET **$4.80**

MOTOR MOUNTING ASSEMBLY

Consists of all necessary hardware and rubber bushings for mounting the RCA motor described above.

A9446. List, $1.68. NET..... **$1.00**

A9448. MIDGET PICKUP. Part No. 6592. 6¾" long; 2500 ohms Impedance.
List, $5.65. NET..... **$3.39**

RCA RK 24 PHONO OSCILLATOR

Designed by RCA-Victor to insure good phonograph reproduction when used with practically any receiver. Sell extra entertainment profitably by installing the RK24 Phonograph Oscillator. May be connected in a few minutes. Requires no changes in the receiver wiring. Sells itself to your prospects upon demonstration by "tuning in" phonograph reproduction just like a radio station.

SIMPLIFIED INSTALLATION

Leads are arranged to slip under receiver tube prongs. While the RK24 Oscillator is designed especially for use with the RCA-Victor Record Player, any electrical pickup may be used. Acts as a miniature transmitting station modulated by the phonograph pickup. Has a tuning range of 1400 to 1700 K.C. Requires the use of a 6A7 tube with sets using 6.3 Volt tubes, or a 2A7 with sets using 2.5 Volt tubes. Furnished less tube; with directions. Easy to install; dependable in operation.

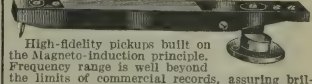
A9497.
List, $9.75.
YOUR PRICE **$5.85**

DEAGAN MUSICAL STATION CHIMES

A new four bar chime which produces four perfectly pitched notes. Creates delightful mellow tones at any random tapping. Ideal for home use, and for amateur or broadcast stations. Chromium-plated screws and black tubes. Free book of music supplied complete with tapping mallet, and FREE book of 80 calls and musical selections.

A7330. Model 201.
List, $6.00.
YOUR PRICE **$4.50**

AUDAX MAGNETO CHROMATIC PICKUPS



High-fidelity pickups built on the Magneto-induction principle. Frequency range is well beyond the limits of commercial records, assuring brilliant reproduction. Ball-bearing mounted. Has low center of gravity. High impedance, high output type.

A2251. Type PR-66.
For all 10" to 18" records.
List, $35.00. YOUR NET PRICE. **$11.80**

A2250. Type HR-64.
For all 10" and 12" records.
List, $24.50. YOUR NET PRICE.. **$8.75**

GREEN FLYER RECORDING MOTOR

A heavy-duty double-motor and turntable designed especially for recording requirements. Two speed type for 78 and 33⅓ R.P.M. recording. Has constant speed, governor-controlled, induction motors. Lasting powerful silent performance is assured by spiral-cut gears running sealed in oil and by oversize self-lubricating bearings. Just the turntable to use with high grade recording and play-back equipment. Ideal for recording with any head on either pregrooved or blank discs. Will record and play back standard 78 or new 33⅓ R.P.M. records. Has absolute uniformity of speed under recording drag. Supplied complete with speed shift lever, all necessary hardware, and special weighted 12" turntable.

A10075. List, $35.00. YOUR PRICE..... **$21.00**

RECORDING EQUIPMENT

UNIVERSAL PORTABLE RECORDER

A new portable recorder. Developed in response to demands from universities and from radio station studios for a truly reliable portable recorder, light enough to be carried anywhere and yet designed to produce highest fidelity recordings. Simple enough in operation so that the ordinary layman can operate it. Can be used in Radio studios for making recordings of today's historical happenings for permanent record. Speech and dramatic schools will find it of great value in correcting defective speech. A complete program as delivered over the air can be recorded and played back at any time. Will record any blank up to 17" at either 78 or 33⅓ R.P.M. Can be instantly changed to cut either 90, 110 or 130 lines per inch, "inside to out" or "outside to in." Has 15 ohm Professional cutting head described below. The full frequency playback pickup supplied with A10401, can be used for monitoring. Black grained leatheroid case measures 20"x24"x12". For 110 volts, 60 cycles. Shpg. wt., 80 lbs.

$246.00

A10402. Universal Portable, less pickup. NET....
A10401. Universal Portable with 500 ohm pickup.
YOUR NET PRICE.....**$266.00**

UNIVERSAL PROFESSIONAL RECORDER

Assures the Finest Recordings Possible

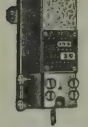
A10400. YOUR PRICE **$375.00**

Precision workmanship and highest quality material combined with the knowledge gained through years of recording experience, make this the very finest recorder obtainable. A heavy "rock-solid" piece of precision machinery for long and continued use. Designed for the most exacting recording requirements. Write to our Sound Engineering Division for full details.

A10400. Complete Professional Recorder, less cutting head..... **$375.00**
Crating charge extra.....$2.50

Will record on Aluminum, Silveroid, Acetate or Nitrate discs. Built to rigid specifications. The 16" turntable weighs 110 lbs. and is rim driven by a 100% synchronous reversible motor, manually started. Runs either 78 or 33⅓ R.P.M. Shipping weight of complete recorder is 290 lbs. Supplied less cutting head. See listing below for correct cutting head.

PROFESSIONAL RECORDING HEAD



A scientifically designed recording head, for recording on acetate or aluminum discs. For use with Professional Recorder above or other recorders of similar construction. Frequency response flat from 30 to 8000 CPS. Has finest Cobalt steel permanent magnet; Armature is balanced double-coil type, having independent adjustable dampers in each of four pole pieces. Finished in crackle aluminum.

A7230. 15 ohm impedance.
NET.....**$42.00**

FLOATING RECORDING HEAD

Designed for Acetate and wax recordings. Frequency response 30 to 8000 cycles within 2 DB. Head is made of duralumin for minimum weight. Energized by a new nickel aluminum permanent magnet, giving 20% greater strength. For use on Professional Recorder listed above; can also be used on other similar equipment.

A7231. 15 ohm impedance.
NET.....**$68.00**

These heads come in 50, 200 or 500 ohm models, at same prices as above, on special order.

UNIVERSAL MODEL 12 RECORDER

Consists of a powerful, rubber-mounted motor for 78 or 33⅓ R.P.M. use; weighted turntable; removable 98 line per inch leadscrew; Professional cobalt-magnet cutting head of 15 ohms impedance. In attractive wooden cabinet equipped with volume control, volume level meter, and "on-off" switch. Sample record and full instructions are supplied. Designed for making records of speech and all types of music on blank aluminum discs. Will make brilliant recordings on discs up to 12" in size. For 110 V., 50/60 cycles A.C. Also available in 50, 200, or 400 ohm models at the same price. Wt., 28 lbs.

A10096. YOUR PRICE.....**$92.50**

RECORDING DISCS

ALUMINUM

Made of a special hardened aluminum alloy; mirror-polished. Assure maximum volume and brilliancy of tone with long life.

PREGROOVED

Double-faced, pregrooved discs. May be recorded on both sides. Use Type B Sapphire, or Steel Home Recording Needles.

No.	Dia.	List	NET
A7280	6"	$0.30	16c
A7281	8"	.50	23c
A7282	10"	.75	39c
A7283	12"	1.00	55c

Blank Discs Standard Weight

Ungrooved discs for all recording purposes. For use with a good cutting head and leadscrew. .0215" thick. Use Type A cutting needle.

No.	Dia.	List	NET
A7284	6"	$0.24	14c
A7285	8"	.36	21c
A7286	10"	.48	28c
A7287	12"	.60	35c

Heavyweight

Extra-heavy aluminum discs, .0335 in. thick. Ideal for Professional recordings.

No.	Dia.	List	NET
A7251	6"	$0.30	18c
A7252	8"	.50	29c
A7253	10"	.75	44c
A7254	12"	1.00	59c

SILVEROID DISCS

Ideal blanks for instantaneous recording and play-back. Will give high quality full frequency reproduction; needle scratch is reduced to a minimum. Ungrooved. Use type D needle.

No.	Dia.	List	NET
A7288	10"	$1.10	$0.65
A7289	12"	1.50	.90
A7235	13½"	2.65	1.59
A7294	16"	2.90	1.74
A7236	17"	3.40	2.04

UNIVERSAL PROFESSIONAL DISCS

Highest quality Professional recording discs. Feature wider frequency response, heavier coating, absolutely silent background, do not deteriorate with age. Cellulose-coated aluminum, black finish.

No.	Dia.	List	NET
A7244	10"	$1.10	$0.65
A7245	12"	1.50	.90
A7237	13½"	2.65	1.59
A7246	16"	2.90	1.74
A7238	17"	3.40	2.04

CUTTING LUBRICANT

A7247. For use on disc surface before cutting. Reduces surface noise, and prolongs stylus life. In 1 oz. vials. NET. **29c**

RECORD PRESERVATIVE

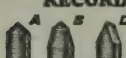
A7248. For application to record after cutting. Polishes grooves, and preserves by sealing off newly exposed material.
1 oz. cans. NET.....**29c**

RECORD RECONDITIONER

A7249. A gas-liberating chemical for softening Nitrate or Acetate blanks. Reconditions old records, or softens new blanks before cutting. 1 oz. cans. NET.....**29c**

We can supply all types of recording discs including Presto, Mirror, etc. Send in your order with deposit or write for prices.

RECORDING NEEDLES



SAPPHIRE

Of high grade sapphire, precision-ground and polished. Recommended for long wear and fidelity.

A7584. Type A. For blank aluminum discs. List, $4.00.
NET EACH **$2.35**

A7585. Type B. For pregrooved aluminum and composition discs.
List, $4.00. NET EACH.....**$2.35**

A7586. Type D. For Silveroid, Professional and other semiplastic discs.
List, $6.00. NET EACH.....**$3.53**

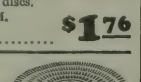
A7612. RCA-Victor Steel Home Recording needles. For pregrooved discs.
3 to a package. YOUR PRICE.....**25c**

PROFESSIONAL STEEL CUTTING STYLI

Special alloy steel; hand-finished to a mirror polish and razor edge. For cutting Silveroid, Nitrate, or Acetate discs.

A7273. For 33⅓ R.P.M.
A7274. For 78 R.P.M.
EACH, PACKAGE OF 10..... **$1.76**

STROBOSCOPE



Checks the speed of any turntable. Place Stroboscope on turntable and illuminate by any light operating on 60 or 25 cycles. 6" in diameter, of heavy cardboard.

A7293. YOUR PRICE.....**15c**

PLAYBACK NEEDLES

A7589. BAMBOO REPRODUCING NEEDLES. For playing all types of recorded discs. PACKAGE OF 100....**59c**

A7278. RED CACTUS NEEDLES. The most durable non-metallic needle. Plays 5 to 15 records. PKG. OF 10...**59c**

A7272. RED SHANK STEEL NEEDLES. For maximum number of playbacks on Acetate coated discs, .002 radius at point.
PACKAGE OF 10.....**15c**

A7279. "TRAILING SHOE" NEEDLE. For Silveroid, pregrooved composition, or cellulose records when played with a head whose angle is less than 30° from the vertical.
PACKAGE OF 10.....**29c**

REPLACEMENT DYNAMIC SPEAKERS

KNIGHT PERMANENT MAGNET DYNAMIC SPEAKERS

An entirely new line of permanent magnet dynamics. Speaker magnets are made of "Alnico," the new high permeability material used in most high grade P.M. speakers. Cones of seamless, non-resonant material. Girder type frame construction used throughout. Holes on rim spaced so as to be interchangeable with all standard makes. The 5" and 6" speakers, in most cases, will give better reproduction than similar sized dynamics in AC-DC sets. The 8" and 12" speakers are ideally suited to all P.A. installations as extension speakers. Can also be used as extension speaker to various rooms in the home. Equipped with universal output transformers.

5 INCH MODEL
An ideal midget set replacement speaker. Has full ¾" pole piece; 5 ohm voice coil. Will handle 3 watts with remarkable fidelity.
A9533. Shpg. wt., 1 lbs. NET..... **$2.65**

6 INCH MODEL
An ideal replacement speaker for all battery sets, or for speaker extensions. 5 ohm voice coil. Will easily handle 4 watts.
A9535. Shpg. wt., 2 lbs. NET..... **$3.49**

6 INCH MODEL
For set builders and for use in small table model sets. ¾" pole piece; 5 ohm voice coil. Handles 3½ watts without distortion.
A9534. Shpg. wt., 2½ lbs. NET..... **$2.79**

12 INCH MODEL
May be used as P.A. extension speakers or for larger radio sets. 5 ohm voice coil. Will handle 7½ watts without distortion.
A9536. Shpg. wt., 9 lbs. NET..... **$4.74**

WRIGHT-DECOSTER UNIVERSAL REPLACEMENT DYNAMIC SPEAKERS

A high grade line of speakers for universal application. Among the many desirable features are: Sizes for every requirement; Universal field coil; Universal output transformer, etc. Ideal for all replacement or custom-building requirements which demand high quality reproduction. Universal field coils: 500, 2200, 1800, 1500, 1000, 700 and 300 ohms tapped at 300 ohms. May be used to replace any speakers with field resistances listed above. Output transformer matches any single or P.P. output tubes. Every Service Shop should have several of these speakers to take care of emergency replacement calls.

6 INCH MODEL
Ideal for midget sets. Will improve quality of reproduction without distortion at full volume.
A9590. Shpg. wt., 1½ lbs. NET..... **$2.40**

8 INCH MODEL
For use as replacement speakers in small consoles and larger table model receivers.
A9591. Shpg. wt., 4½ lbs. NET..... **$2.89**

10 INCH MODEL
Will amply handle the output of most 6 to 10 tube radio sets. Has unusually fine tone.
A9592. Shpg. wt., 5½ lbs. NET..... **$3.38**

12 INCH MODEL
Equipped with the famous Para-Curve diaphragm. Ideal for large radio sets and small P.A. systems.
A9319. Shpg. wt., 8½ lbs. NET..... **$4.85**

NEW WRIGHT-DECOSTER NOKOIL DYNAMIC SPEAKERS

NO FIELD COIL—NO FIELD DRAIN

A permanent magnet dynamic of radically new design. A tiny magnet of new type replaces bulky field coils and older type magnets. Capable of performance usually expected only from electro-dynamic speakers. Ideal replacements for old style magnetic speakers in battery operated radio receivers. Small in size; requires less than normal amount of space and may be used for car radios, battery sets, hotel, school, and hospital central radio systems, and many other similar uses. With Universal output transformer to match all output tubes. Voice coil impedance 5.43 ohm at 400 cycles.

6 INCH MODEL
Excellent for small portable radios, battery sets, office intercommunication systems, etc. Wt., 1 lbs.
9300. List, $5.82. YOUR PRICE..... **$2.85**

8 INCH MODEL
For table model radio sets, call systems, or small P.A. systems. Will handle power input up to 3½ watts. Wt., 3 lbs.
A9301. List, $6.82. YOUR PRICE..... **$3.34**

10 INCH MODEL
Here's an ideal unit for those medium powered replacement or original installations. Will handle 3½ watts. Wt., 4½ lbs.
9594. List, $7.82. YOUR PRICE..... **$3.83**

12 INCH MODEL
Full range super-sensitive speaker for large radio sets, or for multiple speaker call systems. Wt., 7½ lbs.
A9595. List, $9.82. YOUR PRICE..... **$4.81**

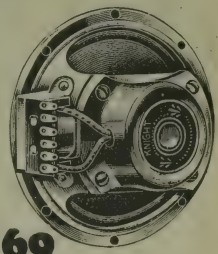
FULL RANGE 12 INCH MODEL
A full-range 7½ watt reproducer designed for large radio sets, record players, sound distribution systems, etc. Provides maximum sensitivity with highest possible efficiency. A real musical device rather than "just another large speaker." Wt., 8 lbs.
9596. List, $13.80. YOUR PRICE..... **$6.76**

KNIGHT DYNAMIC SPEAKERS OUTSTANDING VALUES

Universally accepted by discriminating Servicemen and Custom-Builders. Fine frequency response, sturdy construction, and ample power handling ability make this line of speakers suitable for practically every speaker requirement. Developed to fill the need for high quality speakers at moderate prices, they incorporate every worth-while feature of modern design. Workmanship and materials are of the finest grade; assemblies are unusually rugged to insure long life even under continuous service. Cone and voice coil assemblies designed to give maximum efficiency with freedom from annoying rattles and distortion. All speakers are equipped with universal output transformers.

KNIGHT 6 INCH DYNAMIC

A compact dynamic speaker capable of surprisingly smooth performance. Will adequately fulfill all requirements for superior reproduction in medium-sized sets where space is limited. Carefully assembled of highest-quality components; rigidly inspected to assure a speaker mechanically and electrically correct in every detail. The sturdy construction of this speaker assures long trouble-free operation. Voice coil, ¾" diameter; impedance, 3½ ohms at 400 cycles. Available with field coils to fill all requirements of either replacement or original installations. Each speaker equipped with universal type transformer for matching any single or push-pull output stage.



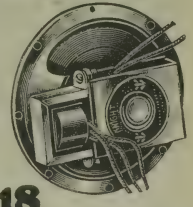
A9256. 6 Volt Field.
A9257. 1000 Ohm Field.
A9258. 1800 Ohm Field tapped at 300 Ohms.
A9259. 2500 Ohm Field.
YOUR PRICE EACH..... **$1.69**

KNIGHT 8½ INCH DYNAMIC

An ideal speaker for use with console receivers and small public address systems. Will handle full volume without overloading or distorting. Cone assembly designed to permit maximum fidelity of reproduction without objectionable resonant points. Correctly aligned voice coil and cone assure maximum efficiency. Heavy rigid frame assembly. Voice coil, ⅞" diameter; impedance, 3 ohms at 400 cycles. 8½" overall diameter; only 4¾" deep. With universal output transformer.
A9260. 6 Volt Field.
A9261. 1000 Ohm Field.
A9262. 1800 Ohm Field Tapped at 300 Ohms.
A9263. 2500 Ohm Field.
YOUR PRICE EACH... **$2.40**

KNIGHT 5 INCH DYNAMIC

Developed especially for use in the new compact receivers where space is at a premium. 6 volt model is ideal for use as replacement speaker in auto radios. An inexpensive speaker for replacement purposes in small midget or portable sets where cost must be held to a minimum, or where only limited space is available. Has excellent frequency response and will handle a surprisingly large amount of volume. Correct design and alignment of free moving cone and voice coil assembly largely eliminates distortion even when delivering full volume. Voice coil, ¾" diameter; impedance, 3½ ohms at 400 cycles. Only 1 diameter, and 2⅝" deep. Supplied with universal transformer to match all tubes.



A9254. 6 Volt Field.
A9255. 3000 Ohm Field.
YOUR PRICE EACH..... **$1.48**

KNIGHT 12 INCH DYNAMIC

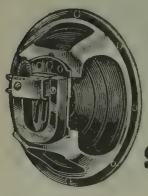
An exceptionally well-built reproducer with excellent power handling ability. Designed to render the highest type of faithful reproduction and tone quality. Will handle up to 8 watts with a minimum of distortion and complete elimination of annoying rattles and "blasting." Ideal for use in large console type receivers, or for small indoor public address systems, call systems, etc. Sturdy construction combined with careful selection of materials assures maximum performance. Overall sensitivity far superior to similar speakers of the same physical characteristics. Equipped with universal output transformer to match any single or push-pull output stage. Shpg. wt., 6½ lbs.

A9530. 6 Volt Field.
A9531. 1000 Ohm Field.
A9532. 2500 Ohm Field.
YOUR PRICE EACH..... **$3.80**

KNIGHT MAGNETIC SPEAKERS

RADIO'S GREATEST SPEAKER VALUES

ALLIED presents a remarkable selection of magnetic speakers which have already achieved an enviable reputation for fine tone quality. These high-quality all-purpose speakers are in constant demand. The many advanced features incorporated in these highly efficient KNIGHT magnetic speakers make them ideal for a multitude of uses. Stronger construction; more reliable.

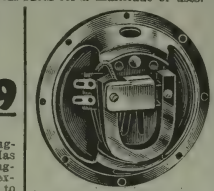


6 INCH MODEL

A9252

$1.59

A sturdy and powerful, small size magnetic speaker, only 6" in diameter. Has heavy pressed steel frame and large magnet. Latest improved armature design; extra flexible diaphragm. Will handle up to 1 watt output. DC resistance, 1000 ohms. Especially recommended for battery and AC-DC set use, as an extension speaker, or in multiple-speaker installations. An ideal high quality all-purpose unit constantly in demand and priced low for profitable installations. Shipping weight, 4 lbs.

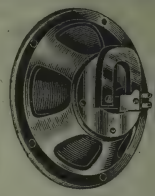


5 INCH MODEL

A9251

$1.13

A well-designed midget type speaker suitable for use with battery, small AC-DC and AC sets where space is very limited. Only 5 inches in diameter. Pressed steel frame is of rigid design. Has generous sized magnet. DC resistance is 1000 ohms. Unusually fine tonal response. An excellent replacement unit for all compact-type radio sets, or for use in multi-unit installations and as extension speaker. Well-built for good service. A wonderful value at our low price. Shipping weight, 3 lbs.



8½ INCH MODEL

A9253

$1.78

Similar in construction to the smaller models, but is 8½" in dia., 3⅝" deep. Has extra flexible diaphragm and heavy-duty magnet. Will easily handle up to 1½ watts of audio without distortion. Carefully assembled to insure long life and freedom from rattles and objectionable vibration. DC resistance, 1000 ohms. Ideal for battery set use and as extension speakers in hotel, school, and similar multi-speaker installation. The scientific design and construction of this fine magnetic speaker results in excellent tonal performance. Shipping wt., 4 lbs.

Wright-Decoster HYFLUX MAGNETIC SPEAKERS

A magnetic speaker with many unusual features. All parts are fully shielded and protected against dust, grit, etc. Rigid one-piece pressed steel frame is of new design. Compact assembly allows easy, rapid installing in battery sets, auto radios, multiple extension speaker systems, etc. Frequency response is unusually good.

A9317. 6 Inch Magnetic. List, $4.00. YOUR PRICE..... **$1.96**

A9318. 8 Inch Magnetic. List, $4.50. YOUR PRICE..... **$2.20**

METAL WALL CABINETS WITH 8-INCH MAGNETIC SPEAKERS

The Hyflux speaker chassis mounted in an attractively finished steel wall type cabinet. The perfect speaker for centralized radio installations, or for extension speakers in the home.

FLUSH MOUNTING

Mounts flush with wall surface. 12"x14"x5½". Provided with approved conduit box.

A9303. List, $9.16. NET... **$4.49**

SURFACE MOUNTING

Projecting or surface type wall cabinet, with walnut finished trim. 12"x14"x5½".

A9304. List, $9.26. NET... **$4.54**

UTAH SPEAKERS ORTHOVOX PM TYPE

New type permanent magnet speaker at a really attractive price. Provides high quality reproduction which compares very favorably with that of the best electro-dynamics. Cone and driver assemblies are perfectly aligned, insuring freedom from rattles and vibration even at full volume. Equipped with chrome-steel permanent magnets and heavy-duty laminated armature, enclosed and protected from dust, grit, etc. Because no field excitation is required, this speaker is ideal for multiple speaker installations, or as an extension speaker for radio sets, etc. Available in several popular sizes, with output arrangements to match practically any tube combination. For types listed refer to Output Tube Data below.

Model 5X-5" Diameter

Ideal for use in A.C.-D.C. midget sets. Will handle 1½ watts. Shpg. wt., 2 lbs.

A9219. Type A.
A9220. Type B.
A9221. Type C.
List, $3.75. EACH.. **$2.20**

Model 8X-8" Diameter

Will handle up to 3½ watts. Shpg. wt., 4 lbs. An excellent value.

A9225. Type A.
A9226. Type B.
A9227. Type C.
List, $4.50. EACH... **$2.65**

Model 6X-6½" Diameter

Will handle up to 2 watts. A sturdy popular speaker. Shpg. wt., 3 lbs.

A9222. Type A.
A9223. Type B.
A9224. Type C.
List, $4.00. EACH... **$2.35**

Model 12X-12" Diam.

Will handle up to 6 watts. Heavy duty model. Shpg. wt., 5 lbs.

A9228. Type A.
A9229. Type B.
A9230. Type C.
List, $7.00. EACH... **$4.12**

OUTPUT TUBE DATA

Type A	Single. 01A-39-49.
	Push-Pull. 12A-31-33-38-41-42-47-2A5-6F6.
	Class B.* 6A6-19-49-53-79-89.
Type B	Single. 2A5-6F6-10-12A-31-33-41-42-47.
	Push-Pull. 43-45-71A.
Type C	Single. 43-45-71A.
	Push-Pull. 2A3-48.

* For Class B operation, connect a 1 watt resistor across two outside speaker terminals. The resistor value in ohms should be at least 5 times the total plate-to-plate load impedance.

KNIGHT 3 INCH MIDGET MAGNETIC SPEAKER

Here's the smallest efficient speaker you can buy. A high quality, well-designed magnetic speaker measuring only 3 inches in diameter. Intended especially for use in pocket-sized midget receivers, two-way communication systems, and small portable short-wave receivers. Strong, permanent magnets and coils, of full size, are mounted on a midget rigid pressed steel frame. May be mounted from front or back, in any position desired. Shpg. wt., 1 lb.

A9458. YOUR PRICE **98c**

8½ INCH MAGNETIC SPEAKERS

GOTHIC CABINET MODEL

A fine table model magnetic speaker. Combines attractive appearance and excellent tone quality. Handsome walnut-finish cabinet is 11" high, 10⅝" wide, and 6½" deep. A high quality magnetic speaker chassis is mounted in the cabinet. Speaker chassis is 8½" diameter, 3⅝" deep; has pressed steel frame, large magnet and improved armature structure. 1000 ohms DC resistance. Equipped with 5½ ft. cord. This high grade speaker is ideal for use with battery sets, multiple speaker systems, extensions, etc.

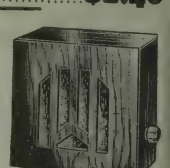
A9444. YOUR PRICE..... **$2.98**

WALNUT SPEAKER CABINET ONLY

Cabinet only as illustrated above. Very sturdy. Has beautiful walnut finish and attractive design. Will accommodate any speaker not over 8½" in diameter. 11" high, 10⅝" wide, 6½" deep.

A9445. YOUR PRICE..... **$1.40**

SQUARE CABINET MODEL



A sturdily built modern, handsome square-type speaker cabinet finished in rich dark walnut. Equipped with new, improved 8½" double-magnet magnetic type reproducer. An ideal extension speaker. Has gold-bronze silk grille, both front and back. Complete with 6 ft. cord. Size, 9¼" square x 5¼" deep. Shpg. wt., 5 lbs.

A9483. NET **$3.05**

A9484. Same as above, but with Volume Control and "On-Off" switch. Load resistor is thrown across line in "Off" position, so that volume of other speakers on same line is not affected.

NET **$4.50**

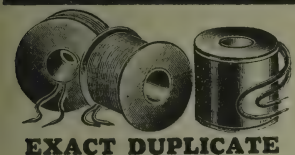
JENSEN PERI-DYNAMIC SPEAKERS

Absolutely new. The "Peri-dynamic" (enclosed dynamic) principle permits superior baffling of the speaker, provides improved performance and positive speaker protection. The principle follows the theory of the operation of speakers in air-tight enclosures. The enclosure and the new Jensen 8" PM type "C" electro-dynamic speaker were designed for best acoustic results. The performance of the new Peri-dynamic is amazingly fine, and it is easily capable of handling a full 5 watts continuously without distortion. Enclosed in a wood cabinet finished in black lacquer and walnut. 12½" wide x 16½" high.

A9682. With 6 ohm voice coil. Less transformer. NET..... **$12.20**

A9683. With adjustable line transformer, 500, 1000, 1500, 2000 ohms.
A9684. With adjustable output transformer, 4500, 7000, 10000, 14000 ohms CT. List, $22.00. NET EACH.. **$12.94**

REPLACEMENT PARTS FOR SPEAKERS



EXACT DUPLICATE FIELD COILS

Replacement field coils which exactly duplicate the originals physically and electrically. Perfectly impregnated against moisture.

We can supply field coils other than those listed below. If possible send sample with deposit, or specify inside dia. of hole, outside dia. of coil, length of winding, and resistance and we will supply or quote promptly.

Cat. No.	Set or Speaker	Res. Ohms	YOUR PRICE
A2990.	Apex-Gloritone 20	5,935	$1.47
A2950.	Apex-Gloritone 26	11,500	1.47
A2951.	Apex 26A	11,500	1.47
A2952.	Apex 26P (Spkr. 2758)	11,500	1.47
A2953.	Apex 26P (Spkr. 2925)	11,500	1.47
A2954.	Apex 27	11,000	1.47
A2955.	Apex-Gloritone 8A	6,600	1.47
A2991.	Apex-Gloritone 10B	6,600	1.47
A2992.	AK 46, 47, 53	1,700	3.53
A2956.	AK 55, 60	1,100	3.53
A2993.	Brunswick 16	2,400	2.35
A2994.	Crosley 269	10,000	2.25
A2958.	Crosley M45	2,500	2.82
A2995.	Jensen D7, D8	1,500	2.59
A2960.	Jensen D7, D8	2,500	2.94
A2996.	Lyric 9	5,000	4.12
A2964.	Magnavox 9"	2,500	3.82
A2965.	Majestic G1	3,100	3.15
A2966.	Majestic G2	2,730	3.15
A2967.	Majestic G3	2,730	4.41
A2969.	Majestic G5	7,650	4.70
A2997.	Majestic G19F	710	1.59
A2975.	Oxford Medium	1,000	2.79
A2976.	Oxford Medium	2,500	3.53
A2977.	Oxford Medium	1,000	3.53
A2978.	Oxford Auditorium	1,500	2.25
A2979.	Oxford Auditorium	2,500	2.75
A2980.	Oxford Auditorium	4,000	1.95
A2981.	Philco 20	3,100	1.18
A2982.	Philco 86, 87, 65, 95, 76, 96, 77	3,200	2.65
A2970.	Philco 70	3,600	1.18
A2983.	RCA 46	2,500	2.35
A2986.	RCA 106	6,000	2.94
A2987.	RCA Photo	1,000	7.44
A2984.	Stewart Warner 950	10,000	4.70
A2985.	Stewart Warner R202	10,000	2.35
A2988.	Temple (All)	2,250	4.12
A2989.	Victor RE32, 45, 75	2,950	2.82

AC-DC FIELD COILS

For midget 5" and 6" speakers. 1" inside dia.; 2" outside dia. 3¼" high. Supplied with 3 gaskets to permit secure installation.

A2690.	1,000 Ohm.	
A2691.	1,500 Ohm.	List, $1.50
A2692.	2,000 Ohm.	
A2693.	2,500 Ohm.	
A2694.	3,000 Ohm.	

YOUR PRICE EACH..... **88c**

We can supply field coils other than those listed. Please specify resistance.

REPLACEMENT DIAPHRAGMS FOR DYNAMIC UNITS

For all Racon and Western Electric units. Please specify model, type, and serial number of your unit. Unit may be shipped to us for installation of proper diaphragm at an additional cost of $1.50 net.

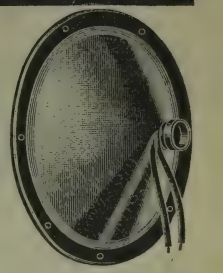
A2672. For Racon Units.
A2673. For W. E. Units. EACH..... **$2.94**

SPEAKER CENTERING SHIMS

Celluloid spacers for centering and adjusting speaker voice coils and armatures. Flexible and tough. Kit includes: 4 shims-.005; 4 shims-.0075; 4 shims-.010; 4 shims-.0125. In handy compact leather case with separate marked compartments.

A2999.
YOUR PRICE **36c**

EXACT DUPLICATE SPEAKER CONES



Duplicate replacement cones accurately designed and carefully constructed to match the originals. One piece seamless material is used; noted for enduring, non-resonant quality. An accurately wound voice coil is included with each cone. Cones are precisely molded by patented process to secure excellent tonal quality and long life. Voice coils are also exact duplicates of the originals in all specifications. For improved tone quality, replace your old speaker cones with these reliable exact duplicates.

If the cone you require is not listed below, your cost can be generally determined by the following schedule: 5" to 6" cones—$1.10; 7" to 9" cones—$1.50; 10" to 12" cones—$1.95. Cones 13" and over will be duplicated at a cost not to exceed $2.75. Please send in your old cone with remittance. If the entire speaker is sent in for cone installation, add 75c to above prices to cover installing and cleaning.

Catalog No.	For Model	Outer Dia., In.	YOUR PRICE
A9361.	A.K. Pt. No. 15142, mod. 43, 46, 55, 60, 64, 66, 67, F4	10¾	$1.18
A9362.	A.K. Pt. No. 14371, mod. 43, 46, 55, 60, 64, 66, 67, F2	10¾	1.18
A9363.	A.K. Pt. No. 19465, mod. 80, 82, 84, 558, 627, 87, 90, 92. Early 83, 85	8½	1.03
A9371.	Brunswick D, 11, 12	9	1.47
A9372.	Brunswick 15, 22, 32.12	12	1.71
A9373.	Brunswick 14, S14	12	1.71
A9367.	Brunswick 24, 17, 16, 18, 33, 25	12	1.71
A9368.	Brunswick 81, 82, S81, S82, 14, 21, 31, S14, S21, S31.12		1.71
A9369.	Crosley M45 Mod. 262, 408, 428, 628, 308	8¾	1.47
A9442.	Grunow 650, 651, 661, 670, 750	8½	1.47
A9443.	Grunow 520	5	.88
A9374.	Jensen D4, D5	9¾	1.71
A9375.	Jensen D7, D8	11¾	1.70
A9376.	Jensen D9 (Outside spider)	11¾	1.71
A9377.	Jensen D9 (Inside spider)	11¾	1.62
A9382.	Jensen D10, D11, Airline 83, Kennedy 42	8½	1.41
A9378.	Jensen D12, D14	8½	1.41
A9379.	Jensen D15	8½	1.32
A9380.	Jensen D16	8	1.32
A9381.	Jensen Aud. DA5, DA6	13	2.94
A9383.	Jensen D19 (Short 3 Pt. Spider)	10	1.62
A9384.	Jensen J1, J2, Stewart Warner 206A	6½	1.03
A9347.	Magnavox 130, 136, Airline 360, Crosley 369, Zenith A, B, C	8½	1.47
A9348.	Magnavox 130, 138, 401	8½	1.47
A9412.	Magnavox D7, D8, D6, 80, 100, Sparton 737, 931, Eveready 30,40, Bosch 29A, Kellogg 523	8⅝	1.62
A9388.	Majestic G1	9	.84
A9387.	Majestic G2	9	.84
A9388.	Majestic G3	10	1.18
A9390.	Majestic G5	12	1.71
A9391.	Majestic G6	9¾	1.47
A9392.	Majestic G7	9¾	1.47
A9395.	Majestic G10B	7½	1.18
A9396.	Majestic G11	10	1.40
A9397.	Majestic G13	12	1.32
A9398.	Majestic G14	12	1.18
A9399.	Majestic G19	10	1.18
A9400.	Majestic G22	12	1.18
A9389.	Majestic G24	6	.88
A9394.	Majestic G26A	5	.85

FIELD EXCITER

A useful field supply unit, using a type 80 tube as a rectifier. For converting a D.C. field speaker for A.C. operation. Furnishes 15 watts under normal use. Special filter reduces speaker hum. With 110 volt, 60 cycle transformer. Size 3½x9x4½" high. Wt., 5 lbs. Less tube.

A9482. YOUR PRICE..... **$2.94**

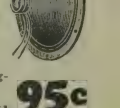
SPEAKER CONE CEMENT

A service necessity. In convenient metal tube containing 3 ounces. No waste. Readily cements cones, paper rings and felts to speaker frames. Dries quickly, and holds permanently. A necessary item in the serviceman's kit.

A2931. YOUR PRICE..... **24c**

Catalog No.	For Model	Outer Dia., In.	YOUR PRICE
A9402.	Oxford (3 point spider)	11¾	$1.62
A9403.	Oxford (2 point spider)	8¼	1.41
A9404.	Oxford (3 point spider)	9¾	1.47
A9405.	Oxford Auditorium	13¼	2.35
A9436.	Philco Pt. No. 02861, mod. 5, 48, 50, 52, 80, 81	5¾	.59
A9406.	Philco 87, 65, 95, 76, 96, 77, 40, 111, 90, 112	10⅞	.82
A9407.	Philco 90, 3, 7, 20, 21, 70	8⅝	.73
A9408.	RCA 104, 105	8	1.18
A9409.	RCA 106, R80, R82, R86, R35, R39, RE57, R34, R50, R55	10½	1.18
A9410.	RCA 48, R7, R7A, R8, R10, R11, R12, R15, R18, R19, R20, R23, R42, R14, RE17	10¼	.88
A9290.	RCA Pt. No. 9023, mod. M34, M105	5	.59
A9291.	RCA Pt. No. 8987, mod. R28, R28P, K22, R28EW, RE40, RE40P, 100, 101, 110, 111, 114, 115, M116, 300, 301	5	.59
A9292.	RCA Pt. No. 9428, mod. R37, R37P, R38, R38P, 112, 120, 121, 122, 124, 126B, 142B, 241B, 310, 320	6½	.59
A9293.	RCA Pt. No. 8921, mod. R71, R71B, SWA3, R24	7½	.73
A9294.	Rola F4	5	.82
A9295.	Rola F5	6¼	1.03
A9296.	Rola F6, F8	7½	1.18
A9297.	Rola D90, D110	9½	1.62
A9298.	Rola Series K	7¾	1.47
A9413.	U. S. Apex-Gloritone 26A (Spkr. 2467)	7¾	1.18
A9414.	U. S. Apex-Gloritone 8A (Spkr. 2801)	7¾	1.32
A9415.	U. S. Apex-Gloritone 26 (Spkr. 2286)	8½	1.18
A9416.	U. S. Apex-Gloritone 26P (Spkr. 2758)	7¾	1.18
A9417.	U. S. Apex-Gloritone 26P (Spkr. 2925))	7¾	1.32
A9419.	U. S. Apex-Gloritone 27 (Spkr. 1936)	8½	1.18
A9420.	U. S. Apex 10B (Spkr. 2802)	10	1.47
A9421.	Utah Stadium (66A-66B)	11¼	1.70
A9428.	Utah 12B (3 point spider, 16 ohm voice coil)	12	1.70
A9429.	Utah 12A (inside spider)	11	1.62
A9422.	Utah Isodyne	7¾	1.18
A9423.	Wright DeCoster 107	12	1.71
A9424.	Victor RE32, 45, 75	9	.95
A9425.	Victor RE57, 34, 35, (RCA 106)	10¼	1.18
A9441.	Zenith 52, 72 (LL18)	12¾	1.70
A9426.	Zenith 52, 72 (Oxford)	12	1.70
A9427.	Zenith 92 (Jensen D9)	11¼	1.62

REPLACEMENT CONE VICTOR RE32, RE45 75 AND 72



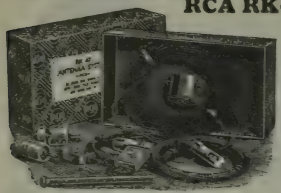
Made of seamless reinforced fabric, coated with a special metallized lacquer. Truly non-resonant and designed for long life. Has accurately wound, perfectly centered voice coil. Advanced type of construction is a distinct improvement over the original. Cone size 9 inches.

A9424. YOUR NET PRICE..... **95c**

RCA-VICTOR ANTENNA SYSTEMS

ANTENNA EQUIPMENT AND ACCESSORIES

RCA RK-40 ALL-WAVE ANTENNA



ASSEMBLED AND WIRED

- GIVES ALL-WAVE COVERAGE
- IMPROVES BROADCAST RECEPTION
- COMES COMPLETELY ASSEMBLED
- EASY TO INSTALL

A scientifically designed All-Wave antenna of the Universal Doublet type. Completely assembled, ready to install; total span is only 68 feet. Noise pickup is eliminated by use of twisted pair transmission line. Improves reception on all bands.

HOW THE SYSTEM WORKS

The antenna itself acts as an efficient pickup medium, giving high signal strength on all short wave and broadcast bands. The transmission line conveys this energy to the coupling unit which automatically matches the line to the input circuit of the receiver.

KIT CONSISTS OF:

1 Complete antenna assembly, with end insulators, 75 ft. transmission line, hermetically sealed antenna junction box, all completely assembled; 1 Receiver matching transformer; 2 Porcelain nail-on knobs; 1 Porcelain lead-in tube, 1 Adjustable ground clamp.

A7598. List, $5.50. YOUR PRICE **$3.30**

A7597. RCA RK-40-A ANTENNA. Same efficient aerial as RK-40, but less the receiver coupler. NET **$2.85**

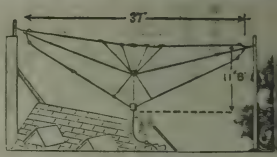
A7593. 12855 COUPLER ONLY. Matching unit for RK-40-A Antenna. NET 45c

RCA 4738 TRANSMISSION LINE

Additional transmission line designed for use with the RCA RK-40, and RK-40-A antennas or with any other doublet type antenna system. This special transmission line assures the maintenance of proper line impedance and provides correct impedance match between antenna and receiver matching transformer. 80 ft. coil.

A7615. YOUR PRICE, PER COIL **$2.09**

RCA SPIDER-WEB ANTENNA



ASSEMBLED

- A TRANSOCEANIC COMMUNICATIONS TYPE ANTENNA FOR THE HOME.
- REQUIRES SMALL SPACE — MEASURES ONLY 38x12 FT.
- FACTORY - ASSEMBLED—EASY TO INSTALL—RUGGEDLY CONSTRUCTED.
- EXTREMELY WIDE FREQUENCY RANGE, LESS NOISE.

This remarkable new transoceanic communications type antenna system consists of a series of doublet antennas and an improved transmission line. Completely assembled with special fittings to maintain proper tension on the leads. Easy to install—requires a span of only 38 feet; vertical clearance necessary is only 12 feet. Ruggedly built with seven strand No. 22 copper wire. Additional doublets may be added to increase the frequency range to 70,000 kc. (4 meters).

FULL WAVE COVERAGE

The RCA Spider-Web Antenna functions as a "T" type antenna from 140 to 4,000 kc., and as a multiple tuned doublet antenna from 4,000 kc. to 23 megacycles. Its unique multiple doublet design insures greater signal pickup on every receiving band—bringing in more stations than you ever heard before. Works especially well on the short wave bands.

KIT CONSISTS OF:

Complete assembly including: 5 coils of antenna wire of various sizes; 2 hangers; 1 coil of lead-in wire; 1 antenna receiver coupling transformer; 1 Spider-Web terminal transformer; 7 "U" clips; 2 antenna transformer connections; complete, detailed instructions for installing.

A7580. List, $8.95. YOUR PRICE **$5.37**

ULTRA HIGH FREQUENCY KIT FOR ABOVE

The Ultra High Frequency Kit increases the range of the Spider-Web Antenna from 23 megacycles to 70 megacycles, with full noise reduction. This feature is especially important because of the increased frequency range of modern all-wave receivers. This kit may be added at any time after antenna is installed.

A7581. List, $1.50. YOUR PRICE **90c**

ANTENNA INSULATORS

BEE-HIVE INSULATOR

For supporting wiring, or instruments. Made of glazed porcelain. 2" dia.; 2¼" high. Extra strong and weatherproof. May be used outside to support lead-in or ground wires.

A6190. 10 FOR 84c. EACH **9c**

STAND-OFF INSULATOR

Highest quality porcelain construction. 4 in. high. For efficient antenna installations.

A6191. 10 LOTS, 95c. EACH **10c**

STAND-OFF INSULATORS

High-grade glazed porcelain construction with deep corrugations. Nick-l-plated brass hardware.

A6148. 5¾ in. high, with base 2¾ inches square. NET EACH **37c**

A6149. 8¾ in. high, with base 1⅞ inches square. NET EACH **18c**

PORCELAIN TUBES

Durable, non-absorbent porcelain, with smooth finish inside and out. Flanged at one end to avoid drifting in too far. Inside dia. 5/16".

A6212. 3" Long. 10 for 18c. EACH **2c**

A6213. 6" Long. 10 for 24c. EACH **3c**

PORCELAIN INSULATORS

Glazed porcelain; corrugated for minimum leakage. Extra strong.

A6192. 2½ inches long. 10 FOR 22c. 100 FOR $2.05. EACH **2½c**

A6193. 4 inches. 10 LOTS, 55c. EACH **6c**

A6194. 5 inches. 10 FOR 85c. EACH **9c**

PYREX INSULATORS

Strong rugged insulators, with low power loss and low surface conductivity. Built to withstand heat, cold, and other atmospheric conditions.

A3750. 3⅝" long. For Receiving Aerials. EACH **20c**

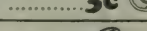
A3751. 7½" long. Will handle up to 250 watts. NET EACH **75c**

GLASS INSULATORS

Absolutely climate-proof. Extremely efficient; designed for great strain. 3 in. long. Inexpensive sturdy insulators.

A6196. 10 FOR 28c. 100 FOR $2.65. NET EACH **3c**

EYE WALL INSULATOR



Bakelite center mounted in galvanized screw eye.

A3430. 3 INCH. 10 FOR 21c. NET EA... **2½c**

A3431. 7 INCH. 10 FOR 39c. NET EA... **4½c**

ANTENNA EQUIPMENT

AIRPLANE INSULATOR

Streamlined strain insulators, made of low-loss glazed white porcelain. Ideal for breaking up antenna guy wires. Size 1⅜x⅞".

A6217. Wt., 3 oz. 10 FOR 29c. YOUR PRICE EACH **3c**

PORCELAIN NAIL KNOBS

Sturdy split knobs of glazed white porcelain for holding lead-in and ground wire away from walls. Have alligator jaws for sure grip of wire. Leather washers prevent splitting. 1⅝" high, 1⅛" diam. Shpg. wt., ½ lb. ea.

A3418. 10 FOR 21c. 100 FOR $1.80. EACH **2½c**

STRAIN INSULATOR

Brown porcelain construction. 2¼" long, 1½" dia. Unusually strong.

A6195. 10 LOTS, 54c. EACH **6c**

ANTENNA INSULATORS

Made of white glazed, wet process porcelain. Have great dielectric and tensile strength. Very low capacity, low leakage. For transmitting or receiving aerials. All 1" diameter.

A3415. 7 in. long. NET EACH **20c**

A3416. 12 in. long. NET EACH **29c**

A3417. 20 in. long. NET EACH **39c**

TRANSPOSITION BLOCKS

Made of glazed ceramic material. Correctly designed to prevent twisting of transposed lead-in; reduces electrical loss to minimum. 2½"x 1⅝".

A6215. Wt., 3 oz. 10 FOR 57c. YOUR PRICE EACH BLOCK **6½c**

CAGE AERIAL SPREADER

Porcelain spreaders for Cage aerials. Sturdily constructed of special moisture-proof porcelain. Unglazed. High in insulating properties, with long leakage path. 2¼"x2¼"x½".

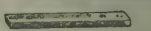
A6216. Wt., 3 oz. 10 FOR 90c. YOUR PRICE EACH **10c**

CROSSOVER INSULATOR

Designed for use with double-doublet antenna systems. Made of a low-loss ceramic compound. Glazed. Will not absorb moisture.

A5548. EACH **7c**

FEEDER SPREADER

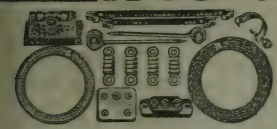


Made of high-grade white glazed porcelain. For correct spacing of parallel antenna feeders. Reduces electrical loss. ½" wide x ⅛" thick.

A6218. 3 3/16" long. NET EACH **6c**

A6219. 5 1/16" long. NET EACH **14c**

All-Wave ANTENNA KITS & EQUIPMENT



KNIGHT UNIVERSAL ANTENNA KIT

A complete kit of essential parts. Enables you to erect the most efficient type of antenna for your particular set. Includes sufficient material for an antenna of the "Marconi," "Doublet," "Double-Doublet," or "Matched Impedance" type, whichever you prefer. A low-priced efficient universal antenna kit which will improve signal pickup on any type of radio receiver.

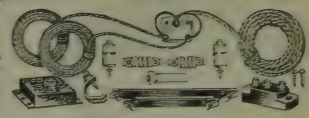
KIT CONSISTS OF:

100 ft. coil stranded aerial wire; 50 ft. coil rubber-covered twisted transmission line; Porcelain crossover block; 4 glass insulators; 2—6" screw eyes; Doublet type lightning arrester; Doublet window strip; 1 ground clamp; 1 antenna coupler; complete instructions. An unusual value.

A3380. List. $4.00. NET **$1.81**

KNIGHT CUSTOM-BUILT ANTENNA KITS

Now there is available maximum all-wave reception from popular sets. These new Knight Antenna Kits have been scientifically designed to exactly fit the requirements of the particular set for which they are listed. Each component unit is of the highest quality. These kits are noise-reducing and famous for greater signal pickup. A worth while investment for improved set performance.



FOR PHILCO SETS

Fully assembled, ready for immediate erection. Off-center-fed doublet type designed to offer an exact match to the Philco input circuit. Has scientifically correct receiver coupler.

A3381. NET **$2.56**

FOR GRUNOW SETS

An All-Wave type antenna. Designed to operate at peak efficiency with Grunow All-Wave sets. Will pep up reception on all bands and reduce extraneous noises. Supplied in kit form.

A3382. NET **$2.08**

FOR ZENITH SETS

Balanced doublet type with noise rejecting transmission line. Permits greater distance reception on all bands. Designed for maximum performance with Zenith sets.

A3383. NET **$2.32**

FOR RCA-VICTOR SETS

A complete efficient double-doublet all-wave antenna. Developed especially for use with RCA-Victor sets. Provides maximum signal pickup on all bands. Eliminates interfering noises.

A3384. NET **$2.32**

FOR GENERAL ELECTRIC SETS

Scientifically designed "V" type doublet antenna. Fully assembled, ready for immediate erection and use with General Electric sets. Develops uniform reception performance on all wave bands.

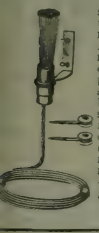
A3385. NET **$2.32**

FOR CROSLEY SETS

A balanced doublet antenna with transposed two wire lead-in. Receiver transformer furnishes perfect impedance match with input circuits of Crosley receivers.

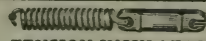
A3386. NET **$3.03**

ALL-DIRECTIONAL AERIAL



Increases the selectivity and sensitivity of any set. An unusually efficient antenna of new design. Permits absolutely All-Directional reception. Will materially improve reception on short wave bands; makes possible improved efficiency on standard broadcast band. May be quickly installed with a screwdriver. Eliminates all masts, poles, long aerials, dangling wires, etc. Requires only a very small space for mounting. Furnished with mounting hardware. Weight, 4 lbs.

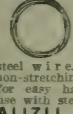
A10010. List. $2.75. YOUR PRICE.. **$1.62**



TENSION INSULATOR

A double-purpose insulator which holds antenna tight by means of a heavy spring. May be used with any antenna.

A11712. YOUR PRICE..... **7c**

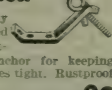


GUY WIRE

50 foot coil of special galvanized steel wire. Tough and non-stretching. Annealed for easy handling. For use with steel masts.

A11711. NET **15c**

ADJUSTABLE ANCHOR



Specially designed adjustable anchor for keeping guy wires tight. Rustproof steel.

A11710. NET.. **9c**

TUBULAR STEEL MASTS

Sturdy, neat-appearing, weatherproof aerial supports. Made of substantial steel tubing, combining strength with light weight. Finished in baked green enamel. Each section is 3½ feet long. Base fittings are adjustable to fit any roof angle. Additional sections may be added to increase height. Low in price. Essential for neat installations.

No.	Length Extended	NET
A10001	3½ ft.	$0.59
A10002	7 ft.	1.03
A10003	10 ft.	1.62
A10004	13 ft.	2.20

A10005. 3 ft. sectional extension to increase height of any of above masts. EACH..... **59c**

AERIAL ACCESSORIES

MUELLER CLAMP

Durable and rigid because of channeled construction. Case-hardened screw. Cadmium plated.

A6508. Lots of 10, 47c. 100 Lots, $4.50. EACH..... **6c**

STRAP CLAMP

Will fit any pipe or rod. Grips securely to make a positive ground contact.

A3426. PER 100, $2.25. NET EACH **3c**

GRIPPER GROUND CLAMP

This heavy-duty clamp may be used on any pipe or rod up to 1½" in diameter. Pointed screw assures positive contact through paint or rust.

A3599. EACH **3c**
10 lots **25c**

KNOC-OUT GROUND CLAMP

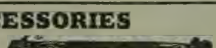
An efficient and easily attached clamp which makes sure contact.

A3429. Per 10, 35c. NET EACH **4c**

INSULATED STAPLES

Saddle type insulated staples. Sturdy, durable, and very useful. Packed 100 to the box.

A3975. Per Box of 100.. **10c**
Per 1000 (10 Boxes)..**95c**

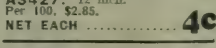


WINDOW LEAD-IN

Fits between sash and sill. Fahnestock connector on each end. Does insulated braid.

A3428. 16 inch. NET EACH **5c**

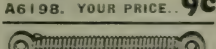
A3427. 12 inch. Per 100, $2.85. NET EACH **4c**



DOUBLE-WINDOW LEAD-IN

Designed for use with any two-wire lead-in, or transmission line. Completely insulated; with screw terminals; 12" long.

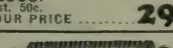
A6198. YOUR PRICE.. **9c**



AERIAL SPRING ADJUSTER

Prevents antenna sag. Powerful, compression type rust-proof spring. With porcelain insulator-end rings. Especially suited for doublet type antenna to prevent swaying.

A2500. List. 50c. YOUR PRICE **29c**



SPRING AERIAL

Especially desirable where space is limited. Easy to erect. Is non-directional. Stretch of 15 to 30 ft. With two fibre end insulators.

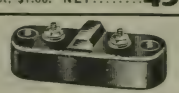
A3433. YOUR PRICE **9c**

LIGHTNING ARRESTERS

ELECTROSTATIC ARRESTER

Combination lightning and static arrester. Incorporates choke coil and condenser acting as noise and static reducer and filter. Affords maximum protection against fire hazard.

A5533. List. $1.00. NET..... **43c**



APPROVED PORCELAIN ARRESTER

A high grade dependable air gap type arrester. Porcelain construction. An unusual value.

A3425. 12 FOR $1.00. EACH... **10c**

NEW DOUBLET ARRESTER

Two arresters combined in one single unit. May be used indoors or outdoors on any two-wire lead-in or transmission line. Black porcelain case; weather-proof. Weight, 1 lb.

A5549. YOUR PRICE **19c**

BABY BAKELITE ARRESTER

Absolutely dependable, safe, weatherproof type. Bakelite construction. Extremely compact to fit anywhere. Approved by the Underwriters' Laboratories. Gives ample protection.

A6199. 10 FOR 65c 100 FOR $6.25. EACH... **7c**

BUD ARRESTER

Underwriters' approved. Efficiently protects against dynamic current. Also improves reception of repeating static charges. Brown porcelain construction.

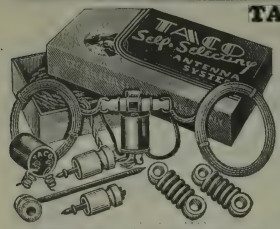
A2601. YOUR PRICE EACH..... **25c**

STORM KING ARRESTER

A new improved type lightning arrester that will afford positive protection. Absolutely assures guard against static discharges. Doublet type for use with doublet antenna, or any aerial using a two-wire lead-in. Screw type terminals; weatherproof; may be installed indoors or outdoors.

A3432. NET **53c**

Aerials & Power Line Filters



TACO ALL-WAVE AERIAL

MODEL 200 ASSEMBLED

A completely assembled noise-free doublet antenna system. Particularly designed to reduce interference to an absolute minimum. Due to a novel, efficient automatic coupling transformer, signal strength is increased on all frequencies. This kit comes to you completely factory-assembled, with all connections soldered. For use with any receiver. Extremely simple to erect. Consists of: 2—30 ft. rolls armored antenna wire, automatic antenna coupler, 75 ft. twisted pair transmission line, 2 antenna insulators, all completely assembled; automatic receiver coupler, 2 stand-off insulators, 1 screw eye and complete instructions. Shpg. wt., 4 lbs.

A7904. List, $6.75. YOUR PRICE..... **$3.97**

MODEL 500 JUNIOR ALL-WAVE KIT

This new factory-assembled All-Wave antenna kit is designed for maximum signal pick-up on all frequencies, with minimum noise. Automatic receiver coupler completely eliminates the necessity of switching the antenna from one band to another. Completely assembled kit contains: 2—30 ft. rolls armored antenna wire; 1—antenna transfer unit; 75 ft. transmission line; 2 antenna insulators; 2 stand-off insulators; 1 screw eye, 1 receiver transformer, and complete instructions.

A7907. List, $4.50.
YOUR PRICE..... **$2.64**

MODEL 301 MASTER ALL-WAVE KIT

An All-Wave antenna kit scientifically designed to provide noise-free reception to as many as 25 receivers, with efficient signal pickup on all bands. Ideal for hotels, hospitals, etc.; also for dealers' demonstration rooms. Master Foundation Kit contains: 1—80 ft. and 1—22 ft. coil of 7x20 tinned copper aerial wire; 1 Transfer coupler; 1—35 ft. coil transmission line; 3—7 inch insulators, 2—strain insulators, and 1—double lighting arrester.

A7905. List, $6.00. YOUR PRICE..... **$3.53**

RECEIVER COUPLERS FOR NO. 301 TACO AERIAL

A7908. Type 302. For exposed wiring. YOUR PRICE..... **$1.47**
A7909. Type 303. For conduit wiring. YOUR PRICE..... **1.18**

DX LIFETIME AERIALS

Efficient non-directional antennas, fully-assembled. Designed to increase selectivity and reduce interference. Especially suitable for successful short wave reception. Convenient form makes installation easy anywhere. Built of 7/24 stranded enamel copper wire with zinc spacer rings. Assembled with two porcelain insulators and with 25 feet of rubber-covered lead-in wire soldered on.

No. 60
A9135. Length, 50 ft. 6 spacer rings. Contains 250 ft. wire. Shpg. wt., 4 lbs.
YOUR PRICE..... **$2.23**

No. 20
A9137. Length, 20 ft. 5 spacer rings. Contains 100 ft. wire. Shpg. wt., 2 lbs.
YOUR PRICE..... **$1.45**

No. 46 DOUBLET SYSTEM

A new doublet type cage antenna designed for noise-free Short-Wave reception. Ideal for use with any All-Wave or Broadcast set. Consists of: 2—20 ft. cage aerials completely assembled with 25 ft. twisted pair lead-in. Each cage has 3 spacer rings and contains 100 ft. of wire. Should be used with an All-Wave Coupler for maximum efficiency. Weight, 4 lbs.

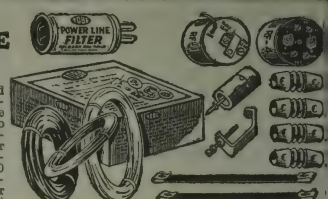
A9138. YOUR SPECIAL PRICE..... **$2.94**

No. 25 DOUBLET SYSTEM

A noise-reducing aerial for use with all-wave receivers where space is at a premium. Only 10 feet long. Each 5 foot cage contains 25 ft. of wire, connected to 25 ft. of twisted pair weather-proof lead-in wire. Includes 4 antenna insulators and instructions.

A9144. YOUR SPECIAL PRICE..... **$1.46**
A9146. NO. 50 DOUBLET SYSTEM. Same as above but with 50 feet of twisted pair lead-in. NET..... **$1.76**

TOBE ALL-WAVE AERIAL



A newly engineered Tobe product, designed to eliminate interference and to increase receiver efficiency. Intended for use on all frequencies from 20 to 600 meters. Uses a single wire antenna for easy installation but may be employed with any doublet antenna if desired. Complete kit contains: 75 ft. Aerial Wire; 4 Insulators; 1 Aerial Transformer; 50 ft. Twisted Pair Transmission Line; 1 Receiver Coupler; 1 Power Line Filter; all necessary hardware and Instructions.

A8400. List, $6.95.
YOUR PRICE..... **$4.09**

LINE NOISE FILTERS and AERIAL ELIMINATORS

AC-DC POWER LINE FILTER

An easily installed Tobe capacity type line filter which will effectively eliminate line noises. Plugs into electric light socket or wall receptacle. Receiver power cord plugs into top of filter unit. Efficient in operation. Materially reduces disturbing radio interference from power line. For 110 volt lines. Shpg. wt., 1 lb.

A8406.
List, $1.00.
YOUR PRICE **59c**

Power Line Filterette

Designed by Tobe to eliminate radio noises coming through the power line. Effective filter action is attained through combining capacity and inductance in one carefully engineered unit. For installation between set and power line. For use where line voltage does not exceed 130 volts. Shipping weight, 3 lbs.

A8405.
List, $4.95. NET..... **$2.90**

DOUBLE-TUNED AERIAL ELIMINATOR

This carefully designed unit will help to increase the selectivity of any radio. Ideal for AC-DC sets to increase power and distance reception. Compact and efficient; eliminates noises. Easy to install. Has movable arms to match impedance of receiver.

A2750.
List, $1.00.
NET..... **59c**

TACO NOISE REJECTOR

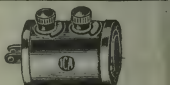
New Taco variable impedance-matching antenna unit designed for use with any doublet antenna regardless of design. Background noise is absolutely eliminated by matching antenna to receiver. Quickly adjusted by means of knob on top. Wt., 1 lb.

A7902. List, $2.50. NET..... **$1.47**

AERIAL ELIMINATOR and ANTENNA TUNER

This new device operates as a noise reducer when used with an outside aerial. May also be used by itself as an indoor aerial. Easily installed; works with any receiver; will improve reception; increases volume on weak stations.

A5554. List, $1.00.
YOUR PRICE..... **59c**



DYNATROL FILTER and INDOOR ANTENNA

Combination indoor aerial and line noise filter. Plugs into light socket. May be used with regular aerial to gain increased pick-up. Reduces noise and improves set sensitivity. Highly efficient.

A5518.
List, $1.50.
YOUR PRICE..... **83c**

RECEIVER MATCHING TRANSFORMER

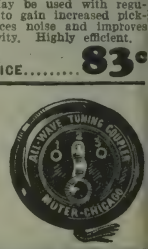
A compact and well-made unit for matching the transmission line of any doublet aerial to any All-Wave or Short Wave receiver. Provides a very efficient match between antenna and receiver. Works with transmission line to eliminate noise and increase signal strength on all bands. Has changeover switch for all-band operation. Will give very effective results in increased sensitivity and power.

A5545. List, $1.50. YOUR PRICE... **81c**

ALL-WAVE TUNING COUPLER

This unit will couple any doublet antenna to any All-Wave or Short Wave receiver. Ideal for providing proper matching between your set and any aerial kit listed in this catalog which has no receiver coupler. Will increase antenna efficiency by providing stronger signals on every band. An inexpensive device that really helps reception.

A6604. List, $1.00.
NET..... **50c**



Belden Radio Products

BELDEN MAGNET WIRE

Highest grade soft-drawn copper wire, uniformly insulated. Each spool one continuous length, uniformly drawn. Standard B & S gauge. Ideal for winding coils, chokes, etc. On convenient small-sized metal spools. Absolutely the finest quality magnet wire you can buy.

PLAIN ENAMELED

½ LB. SPOOLS

No.	Size	Feet	NET
3900	14	88	$0.34
3901	16	63	.34
3902	18	101	.34
3903	20	159	.34
3904	22	253	.34
3905	24	402	.36
3906	26	640	.41
3907	28	1018	.44
3908	30	1602	.49

¼ LB. SPOOLS

No.	Size	Feet	NET
3909	32	1271	$0.34
3910	34	2021	.41
3911	36	3205	.49
3912	38	5118	.65
3913	40	6834	.90

DOUBLE COTTON

½ LB. SPOOLS

No.	Size	Feet	NET
A3950	18	96	$0.41
A3951	20	150	.44
A3952	22	234	.48
A3953	24	362	.56
A3954	26	558	.65
A3955	28	842	.78
A3956	30	1321	.93
A3957	32	1889	1.13
A3958	34	2746	1.41

¼ LB. SPOOLS

No.	Size	Feet	NET
A3959	28	421	$0.46
A3960	30	660	.49
A3961	32	945	.63
A3962	34	1373	.77
A3963	36	1900	.98

DOUBLE SILK

½ LB. SPOOLS

No.	Size	Feet	NET
3980	18	98	$0.58
3981	20	156	.60
3982	22	252	.67
3983	24	382	.77
3984	26	620	.90
3985	28	962	1.02
3986	30	1550	1.19

¼ LB. SPOOLS

No.	Size	Feet	NET
A3987	24	196	$0.41
A3988	26	310	.49
A3989	28	486	.58
A3990	30	775	.65
A3991	32	1207	.83
A3992	34	1828	1.14
A3993	36	2668	1.56

RUBBER-COVERED MULTIPLE CABLE

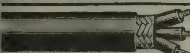
High grade, rubber-covered multi-conductor cable. Individual conductors rubber covered, cotton wrapped and an overall jacket of heavy, flexible rubber.

2390. 2 Conductor. Ft. $2.41. PER FOOT....3c
2391. 3 Conductor. Ft. $3.53. PER FOOT....4c
2392. 4 Conductor. Ft. $4.27. PER FOOT....5c
2393. 5 Conductor. Ft. $5.29. PER FOOT..6½c

SHIELDED CRYSTAL "MIKE" CABLE

Tinned copper (13x36) conductor. Six layers celanese and cotton insulation; tinned copper shielding; rubber-jacket overall.

SINGLE CONDUCTOR
2470. 100 Feet $3.76. PER FT. 4½c
DOUBLE CONDUCTOR
2471. 100 Feet $7.45. PER FT. 9c



SHIELDED RUBBER-COVERED CABLE

Extremely high-grade multiple conductor, shielded, rubber-covered cable. For microphones, speakers, etc. For indoor or outdoor use.

No.	Cond.	NET Per Ft.	NET 100 Ft.
2462	2	5c	$4.41
2439	3	6c	5.00
2464	4	7c	6.13
2465	5	9c	7.61
2466	6	9½c	8.02
2467	7	11½c	9.65

Celanese-Wrapped Push-Back Wire No. 20 Solid

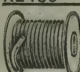
An unusually high grade hookup wire for all radio purposes. Conductor is No. 20 solid tinned copper. Push-back insulation is double-wrapped Celanese; has lacquered colored braid covering. In 25 foot spools.

No.	Color	NET EACH
A2450	Red	20c
A2451	Blue	
A2452	Green	
A2453	Black	
A2454	Yellow	

No. 20 Stranded

Same as above, but conductor is 10 strands No. 30 tinned copper wire.

No.	Color	NET EACH
A2455	Red	21c
A2456	Blue	
A2457	Green	
A2458	Black	
A2459	Yellow	



Celanese-Wrapped Filament Lead Wire

Developed especially for use in heavy-duty filament circuits. No. 14 conductor made up of 41 strands of No. 30 tinned copper wire. Has double-wrap Celanese insulation.

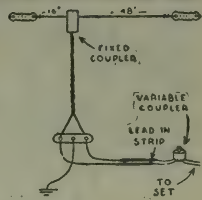
A2460. 25 Ft. Spool, Black. NET 42c
A2461. 25 Ft. Spool, Red. NET 42c

All-Rubber Cord Sets

The modern safe cord for replacement on lamps, radios, etc. Small soft rubber plug and brown No-Fray cord. 7½ ft. approved cord.

A2447. EACH 22c
PER 10 .... $1.82
A2448. Same as above but 12 ft. long. NET EACH....... 27c

BELDEN ALL-WAVE AERIAL KITS No. 8906



A new noise-reducing antenna of latest design; two sections of different length provide maximum response to all frequencies. Variable receiver coupler allows accurate adjustment to meet varying conditions. Completely assembled, ready to erect. Kit contains: 1—48' coil and 1—16' coil 7x24 Beldenamel wire; 75' twisted pair lead-in; 25' twisted pair interior lead-in; antenna coupler; 25' ground wire; 6—insulated staples; 2—6" stand-off insulators; ground clamp; nail-on knobs; 2—glass insulators; double lead-in strip; doublet lightning arrester; All-Wave receiver coupler, and instructions. Shpg. wt., 7 lbs.

A2414. List, $8.35.
YOUR PRICE $4.91

BELDEN JUNIOR KIT

An excellent All-Wave Aerial Kit; also suitable for low power Amateur transmitters, with slight change. Complete kit includes: 2—50' coils No. 14 solid Beldenamel Aerial wire; 1—50' coil twisted pair lead-in wire; 2—3" glass insulators; 2—nail-on knobs; 2—screw eyes. Shpg. wt., 4 lbs.

A2408. BELDEN No. 8914 JUNIOR KIT.
List, $2.65. YOUR PRICE.............................. $1.56

BELDEN ASSEMBLED ANTENNA SYSTEM

A completely assembled All-Wave Antenna System of the double-doublet type; provides noise-free operation of any radio set, and increases signal pickup. Factory assembled kit consists of: 2—30½' and 2—19" coils 7x24 enamel wire; 75' twisted pair lead-in; 25' twisted interior lead-in; 25' ground wire; crossover block; lead-in strip; lightning arrester; insulators; nail-on knobs; ground clamp; variable receiver coupler; hardware; instructions. Easy to install. Shpg. wt., 6½ lbs.

A2407. NO. 8912 BELDEN ANTENNA SYSTEM.
List, $8.20. YOUR PRICE.............................. $4.82

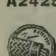
LEAD-IN WIRE

ALL-RUBBER

Stranded wire insulated with special rubber compound easily stripped for quick splicing and easy soldering.

No.	Size	Length	NET
A2422	14	50 ft.	$0.62
A2423	14	250 ft.	2.94
A2424	16	50 ft.	.39
A2425	16	250 ft.	1.80

SHIELDED



Heavy rubber insulation over stranded conductor. Overall shield of tinned braided copper wire. Ideal for shielded lead-in use. Weatherproof.

No.	Size	Length	NET
A2427	14	50 ft.	$1.27
A2428	14	250 ft.	6.12
A2429	16	50 ft.	.88
A2430	16	250 ft.	4.25

Twisted Lead-In Wire

Low impedance doublet type twisted-pair lead-in. Flexible No. 20 (10x30 tinned) conductors, rubber-covered. Black weather-proofed cotton braid over-all.

A2485. 80 Foot Coil. NET $1.22
A2486. 500 Foot Coil. NET $7.28

AERIAL WIRE

BELDENAMEL

High conductivity copper aerial wire. Ideal for all types of Broadcast, All-Wave and Short-Wave aerials, either single wire, double or cage types. Smooth enamel covering prevents corrosion and "weathering." Does not lose its conductivity even after extended periods of time and atmospheric changes.

7x22 ENAMELED

A2410. 75 ft. List, 93c. NET........... 55c
A2411. 100 ft. List, $1.22. NET......... 72c
A2412. 150 ft. List, $1.77. NET..... $1.04
A2413. 1000 ft. List, $12.20. NET.... $7.17

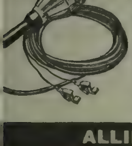
7x20 ENAMELED

A2415. 100 ft. List, $2.35. NET..... $1.38
A2416. 1000 ft. List, $23.50. NET.. $13.80

SOLID ENAMELED

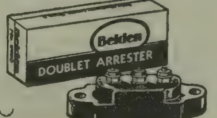
A2418. No. 10. 100 ft. NET.......... $1.31
A2419. No. 12. 100 ft. NET.............. 88c
A2420. No. 14. 100 ft. NET.............. 57c

AUTOMOBILE CORDLITE



A handy light for emergency road service, shop and garage use. Quickly clips to any 6 volt storage battery. Has 15 ft. No. 18 rubber cord with rubber socket, handle and heavy battery clips. End-opening guard has hook and reflector.

A2484. With 6 Volt 25 watt bulb. NET $1.81
A2483. Belden No. 1720. Household type. For 110 Volts A.C. or D.C. As above, but with rubber plug in place of clips. Less bulb. NET $1.21



DOUBLET ARRESTER

For use with any doublet antenna system. Provides complete protection. Sturdy brown porcelain casing with convenient mounting holes.

A2409. NET 21c

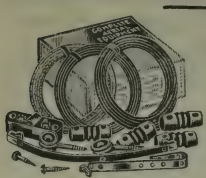
BAKELITE ARRESTER

Underwriters approved. Will provide positive protection. Sturdy and compact. Suitable for installation either indoors or outdoors. Has molded bakelite body with mounting holes at ends. Nickel-plated terminals with lock washers to securely fasten leads.

A2403. 10 FOR $1.50. EACH 16c

Aerial Wire & Equipment

SPECIAL VALUE AERIAL KITS



DE LUXE AERIAL KIT

An exceptionally fine kit. Permits erection of an efficient "Marconi type" antenna which will improve reception of any radio set. Contains 100 feet of 7 strand copper aerial wire; 40 feet of rubber covered lead-in wire; 25 feet of insulated ground wire; four porcelain insulators; two screw-eye insulators; one lightning arrester; one window lead-in strip; and one adjustable strap-type ground clamp. Easily installed in any location. Shpg. wt. 6 lbs.

A3486. YOUR SPECIAL PRICE..... 63c

STANDARD AERIAL KIT

A real value in a complete aerial kit. Includes all materials for a "Marconi type" antenna for use with any receiver. Consists of: 90 feet of 7x26 stranded copper aerial wire; 25 feet of rubber covered lead-in wire; window lead-in strip; two porcelain insulators; two nail knobs; and an adjustable strap-type ground clamp. Conveniently boxed. Shipping wt., 4 lbs.

A3485. YOUR SPECIAL PRICE..... 37c

ALL-PURPOSE LEAD-IN WIRE

RUBBER COVERED LEAD-IN WIRE

Solid Wire

High quality No. 16 rubber covered lead-in wire. Weatherproof.

No.	Ft.	10 for	EACH
A3475	25	$1.15	$0.12
A3476	50	2.25	.23
A3477	100	4.40	.45
A3478	1000	.....	4.34

Stranded Wire

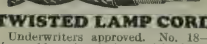
Stranded No. 18 rubber-covered lead-in wire. Flexible and easy to work.

No.	Ft.	10 for	EACH
A3479	25	$1.05	$0.11
A3480	50	2.02	.21
A3481	100	4.00	.41
A3482	1000	.....	3.96

SHIELDED LEAD-IN

For broadcast use. No. 18 stranded tinned wire, with tough, live rubber covering; tinned woven flexible copper braid over all.

A3492. 50 ft. YOUR PRICE 49c
A3493. 75 ft. YOUR PRICE 76c
A3494. 100 ft. YOUR PRICE 96c



TWISTED LAMP CORD

Underwriters approved. No. 18—1/32 rubber insulation with black cotton braid.

A3592. Per foot. NET 2c
A3593. Per 100 Ft. NET $1.45

BELL WIRE

Thoroughly impregnated with paraffine. Barber pole color, cotton serving.

A2907. 25 foot Coils. NET, EACH 6c
A2908. ¼ lb. Coils. NET 10c
A2909. ½ lb. Coils. NET 16c

LITZ WIRE

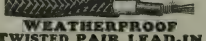
Superior quality for low loss coil winding. 10 strands No. 38 enameled copper wire, white silk-covered.

A2927. 100 Ft. Spool... 12c
A2928. 1 lb. Spool. (1100 Ft.) $1.00

SHIELDED TWISTED PAIR LEAD-IN

For all-wave or short-wave aerials. Solid copper conductors; weatherproof insulation with closely woven copper shielding overall.

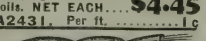
A2487. 50 Ft. YOUR PRICE 90c
A2488. 100 Ft. $1.71



WEATHERPROOF TWISTED PAIR LEAD-IN

For use as low-impedance transmission line with noise-reducing aerials. Two stranded copper conductors, rubber covered. Paraffined braid over all.

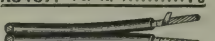
A2432. 100 ft. coils. NET EACH 95c
A2443. 500 ft. coils. NET EACH.... $4.45
A2431. Per ft. 1c



RUBBER TWISTED PAIR LEAD-IN

For all noise-reducing aerial systems employing doublet or double-doublet antennae. Low impedance No. 20 twisted black rubber covered multi-stranded conductors.

A3488. 50 ft. 45c
A3489. 100 ft. YOUR NET PRICE..... 88c
A3490. 200 ft. YOUR NET PRICE.. $1.73
A3487. Per ft. 1c



HANDYCORD LAMP CORD

Rubber-jacketed flexible cord; each conductor is No. 18 stranded copper wire, separately insulated in tough rubber sheath that splits down center when pulled apart. Fine for lamps, radios, etc.

A3410.	Brown.	PER FOOT
A3412.	Black.	1½c
A3413.	White.	
A3411.	Ivory.	
A3414.	Green.	
PER 100 FEET.....		$1.25

TEST-LEAD WIRE

Extra flexible No. 18 test lead wire (41 strands of No. 34 tinned copper wire cotton wrapped). Has 1/32" wall of rubber insulation. Waxed finish.

A2445. Red.
A2446. Black.
PER 25 Ft. COIL..... 29c

AERIAL WIRE VALUES

Exceptionally high quality hard-drawn copper wire. Has very little "stretch." Enameled wire will not corrode and has high conductivity. Excellent for all aerial requirements—All Wave, Short-Wave, or Broadcast, either single-wire, doublet or cage type.

7x26 ENAMELED

A3447. 50 ft. 10 for $1.25. EACH... 14c
A3448. 100 ft. 10 for $2.40. EACH... 26c
A3449. 200 ft. 10 for $4.75. EACH... 51c

7x22 ENAMELED

A3444. 50 ft. 10 for $2.40. EACH... 25c
A3445. 100 ft. 10 for $4.80. EACH... 49c
A3446. 200 ft. 10 for $9.35. EACH... 95c

7x20 ENAMELED

Tough and strong for long life and increased antenna efficiency. Heavy duty wire.

A3434. 50 ft. YOUR PRICE 47c
A3441. 100 ft. YOUR PRICE 92c
A3442. 200 ft. YOUR PRICE $1.80
A3443. 500 ft. YOUR PRICE $4.45

7x26 STRANDED

A3438. 50 ft. 10 for $1.15. EACH... 12c
A3439. 100 ft. 10 for $2.10. EACH... 22c
A3440. 200 ft. 10 for $3.80. EACH... 40c

7x22 STRANDED

A3435. 50 ft. 10 for $1.95. EACH... 20c
A3436. 100 ft. 10 for $3.80. EACH... 39c
A3437. 200 ft. 10 for $7.35. EACH. 75c

7x20 STRANDED

A3472. 50 ft. 10 for $3.40. EACH.. 35c
A3473. 100 ft. 10 for $6.65. EACH.. 68c
A3474. 200 ft. 10 for $13.10. EACH. $1.32

PHOSPHOR BRONZE AERIAL WIRE

Strongest aerial wire made. Used commercially on all ships. Will not stretch. Has high conductivity. This is "lifetime" aerial wire, and will not break under extreme strain.

No.	Size	Ft.	NET EA.
A3460	7x22	100	$1.10
A3461	7x22	200	2.15
A3462	7x24	100	.75
A3463	7x24	200	1.45
A3464	7x26	100	.60
A3465	7x26	200	1.15

COMBINATION AERIAL AND LEAD-IN WIRE

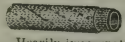
10 strands of No. 30 copper wire, insulated with Gutta Percha. Free-stripping. Non-corrosive. An all-purpose wire for aerial, lead-in and set hookup.

No.	Length	NET
A3468	1000 ft.	$4.65
A3469	100 ft.	.48
A3470	50 ft.	.25
A3471	25 ft.	.13

AUTO IGNITION CABLE

7 M.M. 16 gauge stranded wire covered with high tension rubber compound. Lacquered cotton braid over rubber. Also furnished with woven copper shielding over lacquered cotton braid.

A3495. Unshielded. 10 Foot length..... 24c
A3496. Shielded. 10 Foot length..... 50c



SHIELDED LOOM

Heavily impregnated and weatherproofed. For shielding auto antenna lead-ins, cables, and grouped leads.

No.	Inside Dia.	Per 50 Ft.	Per Ft.
A3423	5/32"	$3.05	6c
A3424	5/16"	3.10	7c

CORD SET

A high grade line cord for use on radios, lamps, fans, amplifiers, etc. 6 foot cord with rubber plug.

A3498. YOUR PRICE.. 16c

SOLID ENAMELED

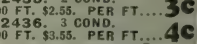
May be used for either transmitter or receiver aerials.

No.	Ga.	Ft.	10 for	Ea.
A3450	10	100'	$ 9.15	$0.93
A3451	10	200'	17.15	1.7[illegible]
A3452	10	500'	41.20	4.2[illegible]
A3453	12	100'	5.90	.6[illegible]
A3454	12	200'	10.80	1.1[illegible]
A3455	14	100'	4.00	.4[illegible]
A3456	14	200'	7.30	.7[illegible]

FLEXIBLE INDOOR ANTENNA WIRE

For AC-DC and Midget sets. Moisture-proof. Neat brown cotton covering for inconspicuous installation.

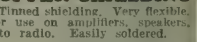
A3483. 100 Feet..... 45c
A3484. 25 Feet 15c



RUBBER SERVICE CORD

Round flexible weather-proof cable. No. 18 (16/30) stranded wire conductors, each rubber covered and coded, with cotton wrapping and outer live rubber sheath.

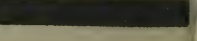
A2435. 2 COND. 100 FT. $2.55. PER FT.... 3c
A2436. 3 COND. 100 FT. $3.55. PER FT.... 4c



FLEXIBLE SPAGHETTI

Fine Cambric tubing impregnated with varnish.

A2895. Black.
A2896. Yellow.
A2897. Red.
A2898. Green.
Per 30" Lgth. 6c
10 LENGTHS 55c



COPPER SHIELDING

Tinned shielding. Very flexible. For use on amplifiers, speakers, auto radio. Easily soldered.

No.	Diam. Open	Per 50 Ft.	Per Ft.
A3595	¼ in.	$0.95	2½c
A3596	⅜ in.	1.10	3c
A3597	½ in.	1.65	4c
A3598	¾ in.	2.35	6c

FOR COMPLETE INDEX SEE PAGES 135-136

Hookup & Magnet Wire—Cables

SINGLE COTTON ENAMELED MAGNET WIRE

An exceptionally high grade magnet wire. Properly annealed for easy handling. Cotton wrap over enamel insures adequate insulation for use in winding coils, transformers, and small motors. Each spool holds one continuous, uniformly drawn and insulated length. B & S gauge.

½ LB. SPOOLS				1 LB. SPOOLS		
No.	Ft.	NET	Size	No.	Ft.	NET
A1000	39	$0.23	14	A1013	78	$0.41
A1001	49	.24	15	A1014	98	.42
A1002	62	.25	16	A1015	124	.43
A1003	78	.26	17	A1016	156	.44
A1004	98	.27	18	A1017	198	.45
A1005	124	.28	19	A1018	248	.49
A1006	156	.29	20	A1019	312	.52
A1007	196	.30	21	A1020	392	.55
A1008	245	.31	22	A1021	490	.58
A1009	386	.35	24	A1022	772	.67
A1010	605	.41	26	A1023	1209	.73
A1011	938	.46	28	A1024	1876	.89

MAGNET WIRE ON SPOOLS

Insulated copper wire of highest quality for all radio and electrical purposes. Wound on spools in continuous lengths. Excellent for winding armatures and field coils, receiver and transmitter coils, rewinding power transformers and chokes. For shops, schools, laboratories, etc. Standard B. & S. Gauge. We can supply magnet wire in all sizes and types of insulation in larger quantities than listed below. Write for attractive prices which will save you money on quantity purchases of magnet wire.

PLAIN ENAMELED
½ LB. SPOOLS

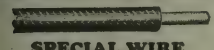
No.	Size	Ft.	NET
A3520	14	38	$0.20
A3521	16	63	.23
A3522	18	101	.26
A3523	20	159	.28
A3524	22	253	.29
A3525	24	402	.30
A3526	26	640	.32
A3527	28	1013	.35
A3528	30	1602	.38
A3529	32	2543	.41
A3530	34	4042	.45
A3531	36	6410	.56

DOUBLE COTTON
½ LB. SPOOLS

No.	Size	Ft.	NET
A3533	14	36	$0.25
A3534	16	61	.27
A3535	18	96	.30
A3536	20	150	.33
A3537	22	234	.36
A3538	24	362	.43
A3539	26	558	.52
A3540	28	842	.61
A3541	30	1321	.79
A3542	32	1889	.90
A3543	34	2746	1.14
A3544	36	3801	1.40

DOUBLE SILK
¼ LB. SPOOLS

No.	Size	Ft.	NET
A3546	18	49	$0.26
A3547	20	78	.29
A3548	22	126	.31
A3549	24	196	.34
A3550	26	310	.39
A3551	28	486	.48
A3552	30	775	.55
A3553	32	1207	.72
A3554	34	1828	1.17
A3555	36	2668	1.41
A3556	38	3875	1.68
A3557	40	5325	2.25



SPECIAL WIRE FOR FARM POWER PLANTS

Weatherproof single conductor wire for use with Windcharger or Farm Power plants. Solid copper conductor; triple cotton-covered and impregnated. For battery charging, use wire as follows: At a distance of 75 feet from charger to battery, use No. 6; at 50 feet, use No. 8; at 25 feet, use No. 10; at 15 feet, use No. 12. For a single 6 volt 25 watt lamp: 150 feet from battery, use No. 8; 75 feet, use No. 10; 50 feet, use No. 12; 30 feet or less, use No. 14.

No.	Size	100 Ft.	Per Ft.
A2490	6	$5.25	5½c
A2491	8	4.50	5c
A2492	10	3.10	3½c
A2493	12	2.65	3c
A2496	14	1.25	1½c

TELEPHONE WIRE

High grade No. 19 solid tinned copper; rubber insulation with glazed cotton braid overall. Evenly twisted. ½x½ inch insulation.

A2494. 2 Conductor.
100 Ft. $1.70 — 500 Ft. $8.10 — 1000 Ft. $15.40

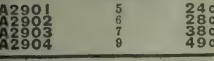
A2495. 3 Conductor.
100 Ft. $2.15 — 500 Ft. $10.15 — 1000 Ft. $19.40

MULTI-CONDUCTOR CABLES

Well-made. For battery, speaker, and analyzer connections. Cotton braid overall.

4½ Foot Cables

No.	Conductors	NET
A2901	5	24c
A2902	6	28c
A2903	7	38c
A2904	9	49c



EXTENSION CORDS
With Connector

Flexible braid-covered cord for use with extension speakers, etc. Has phone tips and plug.

A5555. 20 Ft. Cord. YOUR PRICE 32c
A5556. 30 Ft. Cord. YOUR PRICE 45c
A5557. 50 Ft. Cord. YOUR PRICE 63c
A5558. Extra Connector ... 8c

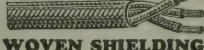
MULTI-CONDUCTOR CABLES

High quality cable for almost every indoor or outdoor requirement. Each conductor is No. 18. Color-coded; flexible; made of best materials.

COTTON BRAID OVERALL

No. 18 stranded conductors, each covered with rubber jacket with brown cotton braid over all. Any length.

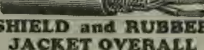
No.	Cond.	NET Per 10 Feet	NET 100 Ft.
A3500	2	18c	$1.45
A3501	3	25c	2.25
A3502	4	32c	3.00
A3503	5	41c	3.65
A3504	6	46c	4.25
A3505	7	52c	4.50



WOVEN SHIELDING OVERALL

Tightly woven overall shielding of fine tinned copper wire. Each is No. 18 conductor, insulated with rubber jacket. Any length.

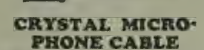
No.	Cond.	NET Per Ft.	NET 100 Ft.
A3507	2	3½c	$2.75
A3508	3	4c	3.55
A3509	4	4½c	4.20
A3510	5	5½c	4.95
A3511	6	6½c	6.15
A3512	7	7½c	6.60



SHIELD and RUBBER JACKET OVERALL

Heavy rubber jacket over tinned copper shielding. Ideal for outdoor and heavy duty service.

No.	Cond.	NET Per Ft.	NET 100 Ft.
A3514	2	3½c	$2.70
A3515	3	4c	3.75
A3516	4	5½c	4.90
A3517	5	6½c	5.70
A3518	6	7½c	6.85
A3519	7	8½c	7.95



CRYSTAL MICRO-PHONE CABLE

Shielded, rubber-jacketed cable. Conductor is of fine stranded copper; extremely flexible. Available in two types, single or double conductor. Low-loss.

Single Conductor
A2499. 100 Ft. $3.45
PER FOOT 4c

Double Conductor
A2498. 100 Ft. $6.40
PER FOOT 7c

PUSH-BACK HOOK-UP WIRE

SOLID TINNED COPPER CORE

Double cotton-covered, with paraffin treated damp-proof braid which pushes back easily. Solid tinned No. 20 copper wire core. A color for every circuit.

STRANDED TINNED COPPER CORE

Core consists of multi-strand tinned No. 20 copper hook-up wire with cotton insulation. Flexible; easy to manipulate. Braid pushes back easily.

25 FOOT ROLLS

A3560. Black.
A3561. Yellow.
A3562. Red.
A3563. Green.
A3564. Blue.
PER ROLL 11c
10 FOR 99c.

25 FOOT ROLLS

A3580. Black.
A3581. Yellow.
A3582. Red.
A3583. Green.
A3584. Blue.
PER ROLL 12c
10 FOR $1.15.

100 FOOT ROLLS

A3565. Black.
A3566. Yellow.
A3567. Red.
A3568. Green.
A3569. Blue.
PER ROLL 36c
10 FOR $3.55.

100 FOOT ROLLS

A3585. Black.
A3586. Yellow.
A3587. Red.
A3588. Green.
A3589. Blue.
PER ROLL 44c
10 FOR $4.25.

1000 FOOT SPOOLS

Solid push-back wire as described above in 1000 ft. continuous rolls in any color listed. Specify color when ordering.

A3570. 1000 FT. NET $3.35

1000 FOOT ROLLS

Stranded push-back hook-up wire in 1000 ft. lengths. Available in colors listed. Specify color when ordering.

A3590. 1000 FT. NET $3.60

COLORED RUBBER HOOK-UP WIRE

Stranded tinned No. 20 copper wire with flexible rubber insulation. Easy to skin. Five colors.

25 FOOT COILS

A3572. Red.
A3573. Green.
A3574. Black.
A3575. Black.
A3576. White.
NET EACH 13c
10 FOR $1.15.

A3577. 1000 FT. ROLLS. Specify color. NET 1000 FT. $4.20

NO. 14 PUSH-BACK WIRE

Ideal for wiring transmitters, power amplifiers, auto radio sets, etc. Conductor is tinned No. 14 soft-drawn solid copper. Moisture-proofed; newly developed insulation has high breakdown voltage factor. Consists of 2 wrappings of Cellulose-Acetate treated textile; with waxed cotton braid overall.

A2870. Black.
A2871. Red.
A2872. Green.
A2873. Blue.
A2874. Yellow.
A2875. 100 FT. ROLLS. SPECIFY COLOR.
25 FT. COILS NET EACH 29c
NET EACH $1.07

HEADPHONE AND SPEAKER CORDS

Good quality replacement cords for headphones and magnetic speakers. Copper tinsel inner conductor covered with closely woven cotton braid; firmly anchored in terminating tips. Flexible and long-wearing.

SINGLE CORDS

A2932. 4 foot cord. Tips on one end; spades on other. For speakers.
A2933. 4 foot cord. Tips on both ends.
PRICE, EACH 8c
10 for 75c — 100 for $7.15

DOUBLE CORDS

A2934. Spades on one end. Tips on other. 5 foot cord.
A2935. Tips on both ends. 5 foot cord.
PRICE, EACH 19c
10 for $1.75 — 100 for $16.95

FUSES • BATTERY CLIPS • HARDWARE

LITTLEFUSES

Designed for the protection of delicate test instruments. Will break the circuit long before the equipment is harmed. Widely used. 1" long, ¼" dia. May be used on A.C. or D.C. Fuse is glass enclosed. Protect with Littlefuses.

Stock No.	Amps. Rating	Load M.A.	PRICE EACH	PER DOZ.
A6230	1/100	10	.12	$1.32
A6231	1/32	25	.12	
A6232	1/16	60	.12	
A6233	1/8	Low Res.	.12	
A6234	1/8	100	.09	$1.00
A6235	1/4	200	.09	
A6236	3/8	300	.09	
A6237	1/2	400	.09	
A6238	3/4	600	.09	
A6239	1	1000	.06	65c
A6240	2	2000	.06	

FOR RADIO AND AMPLIFIER USE

For use in 105-120 volt primary line. Underwriters' approved. 1¼" long, ¼" diameter.

No.	Amp. Rating	Volts	EACH	
A6242	1	250	.05	50c DOZ.
A6243	1½	250	.05	
A6244	2	250	.05	
A6245	3	250	.05	
A6246	1/8	500	.09	$1.00
A6247	1/4	500	.09	
A6248	1/2	500	.09	
A6249	3/4	500	.09	

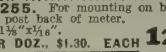
Littlefuse Mountings

Black moulded bakelite. Tinned terminals. 1⅛ x ⅝ x 9/16". For Littlefuses. Single hole mount.

A6250. PER DOZ., 98c. EACH..... **9c**

A6251. Panel type mounting. PER DOZ., $1.30. EACH..... **12c**

A6255. For mounting on binding post back of meter. 1"x1⅛"x13/16". PER DOZ., $1.30. EACH **12c**



Extractor Fuse Post

A6258. Underwriters' Approved. Black Bakelite; for all panels up to ½". No exposed parts; requires tool to renew fuse. NET **29c**

Metal-Covered Fuse Mountings

Metal-covered 3AG fuse mounting, designed for the new metal tube sets. Underwriters' approved. Cadmium-plated; bakelite base. Size, 2½x⅞"; has 6-32 mounting screws at 2⅛" centers.

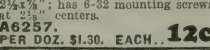
A6257. PER DOZ. $1.30. EACH.. **12c**

FUSE CLIPS

Single hole mount for small auto or radio tubular fuses.

A6253. EACH **2c**
PER DOZ..... **20c**

FUSE RETAINER



Cadmium-plated separable metal container for fusing a line. Used extensively for auto sets. Takes 1" or 1¼" fuse. Also suitable for aerial connector.

A6252. EACH..... **8c**
PER DOZ. **85c**

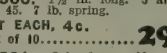
MUELLER BATTERY CLIPS

Strong channel construction. No solder required. For screw or lug connections. 5 and 10 amp. types cadmium-plated; balance lead-coated steel.

MESH TEETH TYPE

A6500. 1½ in. long. 5 amps. No. 45. 7 lb. spring.
NET EACH, 4c.
Box of 10..... **29c**

A6501. 2 in. long. 10 amps. No. 48B. 10 lb. spring.
NET EACH, 5c.
Box of 10..... **32c**



GRIP TEETH TYPE

A6502. 2⅞" long. 25 amps. No. 24A. 17 lb. spring.
NET EACH, 8c.
Box of 10..... **59c**

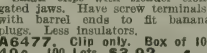
A6503. 4" long. 50 amps. No. 21A. 33 lb. spring.
NET EACH, 16c.
Box of 10..... **$1.08**

A6504. 5⅝" long. 100 amps. No. 11A. 38 lb. spring.
NET EACH **34c**

Solid Copper Clips

For H.F. work. Non-ferrous. 1½" long. 10 amps.

A6480. Type 45-C.
NET EACH, 8c.
BOX OF 10 ..... **54c**



ALLIGATOR CLIPS

Small clips with slender elongated jaws. Have screw terminals; with barrel ends to fit banana plugs. Less insulators.

A6477. Clip only. Box of 10, 49c. 100 Lots, $3.92. EACH..... **6c**

Colored rubber insulators for above clips. Will not slip off. In red or black.

A6478. RED.
A6479. BLACK.
YOUR PRICE, EACH..... **4c**
Box of 10..... **29c**
100 Lots **$2.70**
(Pkd. ½ RED, and ½ BLACK.)

Lead-Coated Battery Clips

Sturdy, non-corrosive lead-covered battery clips. Take small space and have strong springs. Will give long dependable service.

A6505. 15 amp.
10 lots 29c. Each..... **4c**

A6506. 25 amp.
10 lots 42c. Each..... **5c**

A6507. 50 amp.
10 lots 85c. Each..... **10c**

Leader Hydrometer

A large, accurate and dependable hydrometer. Beaded float. Bulb of live, resilient rubber. Shpg. wt., 1 lb.

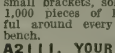
A3971. YOUR PRICE **28c**

We can supply all types of radio hardware. Write to us, describing your needs, stating size, etc., and we shall be glad to ship what you want promptly at the lowest prices.

1000 Piece Hardware Assortment

A bargain assortment that will prove invaluable to every Serviceman, Amateur, or Experimenter. Contains a quantity of rivets, grommets, fibre washers, flat and round head machine screws in assorted sizes and lengths, nuts, eyelets, washers, lock-washers, small brackets, soldering lugs, etc. 1,000 pieces of hardware useful around every shop or workbench.

A2111. YOUR PRICE.. **95c**



Bracket Assortment

Consists of 28 popular-sized angles and brackets for radio work. Nickel-plated brass. Shpg. wt., 1 lb.

A2077. YOUR PRICE. **26c**

Screw Assortments

For all radio service and set-building needs. Each kit contains 85, 6-32 screws from ⅜ to 1 inch long.

Shpg. wt., ½ lb.

A2911. No. 1 Kit. 85 round-head screws.

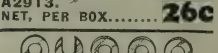
A2912. No. 2 Kit. 85 flat-head screws.

EACH KIT **23c**

Fibre Washer Assortment

A large variety of shouldered and plain fibre washers. Very useful. 100 in box.

A2913. NET, PER BOX..... **26c**



SOLDERING LUGS

Tin coated for easy soldering.

No.	Style	PER BOX OF 100.
A2080.	Style 1.	20c
A2081.	Style 2.	
A2082.	Style 3.	
A2083.	Style 4.	
A2084.	Style 5.	

HEXAGONAL NUTS

Standard 5/16" nuts. Of cadmium-plated steel. Shpg. wt., 1/12 lb.

A7005. 6-32.
A7006. 8-32.
PER 100 ..... **18c**

LUG SCREWS

For mounting shield cans, etc. Cadmium-plated; 6-32 thread.

A7007. PER 100..**37c**
PER 10, NET **5c**

RUBBER GROMMETS

For insulating holes in metal chassis plates and other electrical parts. Tough, strong vulcanized rubber. For metal stock about 1/16 in. thick.

Stock No.	Fits Hole	Inside Diam.	Per Doz.
A2918	¼"	⅛"	9c
A2919	7/16"	5/16"	19c
A2920	½	⅜	21c

TUBULAR FUSES

Type 3AG. Size, 1¼ in. x ¼ in. Protect radio sets, test instruments, etc.

No.	Amp.	No.	Amp.
A6010	1	A6015	[illegible]
A6011	1½	A6016	1[illegible]
A6012	2	A6017	1[illegible]
A6013	3	A6018	2[illegible]
A6014	4	A6019	2[illegible]

Box of 5..... **14c**
PER HUNDRED **$2.65**

Fractional Sizes

Box of 5

A6020.	⅛ Amp.	65c
A6021.	¼ Amp.	45c
A6022.	½ Amp.	45c
A6023.	¾ Amp.	30c

Cadmium Plated Machine Screws

Standard thread, good quality. Buy in gross lots and save money.

1 Gross in Each Box

6-32 ROUND HEAD

No.	Length	Gross
A7010	⅛"	16c
A7011	5/16"	18c
A7012	½"	20c
A7013	¾"	22c
A7014	1"	26c
A7015	1¼"	31c
A7016	1½"	35c
A7017	2¾"	95c

8-32 ROUND HEAD

A7019	5/16"	23c
A7020	½"	28c
A7021	¾"	32c
A7022	1¾"	59c

METAL TAPPING SCREWS

Designed for joining and fastening light sheet metal sheets not heavier than No. 16 gauge. Cut their own threads as they are turned in with screw driver. Uniformly hardened, round head, gimlet point type.

SIZE 6 Stock No.	Per Gross	Lgth.	SIZE 8 Stock No.	Per Gross
A7035	30c	¼"		
A7036	32c	⅜"	A7041	34c
A7037	35c	½"	A7042	36c
A7038	37c	⅝"	A7043	38c
A7039	40c	¾"	A7044	40c

ORNAMENTAL HEAD SCREWS

Rosette head; statuary bronze finish. Size 6-32 (9/16" head dia.).

No.	Length	Doz.
A7000	¾"	8c
A7001	1"	9c
A7002	1¼"	10c

GRILL CLOTH

Speaker grill cloth of finest tapestry material. Pleasingly designed of interwoven black and gold. For use behind speaker grills. Specify size. Furnished only in 1, 2, 3 or 4 foot widths, any length.

A2916. NET, PER SQ. FT. **18c**

Switch Points and Stops

Solid brass. Heavily nickel-plated with ⅜ in. x 6-32 nut.

Switch points.	Switch stops.
A2052. PER DOZ. ... **8c**	A2053. PER DOZ. ... **8c**

JACKS · PLUGS · CLIPS · CONNECTORS

EBY JUNIOR BINDING POSTS

Insulated posts with non-removable engraved tops. Dia. ½". Screw is 6-32, ⅛" long.
A4050. Ant.
A4051. Gnd.
A4052. Input.
A4056. Plain.
A4053. Output.
A4054. +.
A4055. —. **12c**
List, 20c. NET EACH....
PER DOZ. $1.35

COMBINATION BINDING POST

The top section of this binding post will receive any standard banana type plug; screw part will take phone tip or wire. Fixed top.
A2140. RED.
A2141. BLACK.
Doz., 80c. EACH..... **7c**

EBY TWIN BINDING POSTS

Consists of standard Ant. and Gnd. Eby posts mounted on laminated or moulded bakelite strips. 2 in. long, ⅝ in. wide. Insulated posts.
A4058. Moulded bakelite strip.
List. 35c. NET..... **21c**
A4059. Laminated bakelite strip.
List. 25c. NET..... **14c**

COMBINATION GRID CAP

New type reversible cap designed to fit both standard glass tubes and new metal tubes. 11" leads have standard phone tips.
A2147. Red.
A2148. Black.
NET EACH **12c**

INSULATED GRID CAPS

Well-made spring clips. Colored composition insulation. Have 7½ inch wire leads. Make sure contact.

STANDARD	For 866 TUBE
A2050. RED.	A2075. RED.
A2051. BLACK.	A2076. BLACK.
PER DOZ. 65c.	PER DOZ. $1.25.
NET EACH **6c**	NET EACH... **11c**

GRID CLIPS

Sure contact spring clips. Type A is for standard tubes; Type B is for new metal tubes.
A2079. Type A.
A2054. Type B. EACH.. **1c**
2 FOR 8c

Triple A.C. Extension

Handy triple electric outlet. Of live rubber. With 10 foot cord. Special plug provides added outlet.
A3422.
NET.. **48c**

Rubber Handle Cap

Unbreakable soft rubber attachment plug caps. Firm brass blades. Approved type.
A3978. NET.... **4c**
Per 10 .....35c

TWIN JACKS

LAMINATED TYPE

FIG. A. Of laminated bakelite construction, with sure-grip contact springs. Easy to mount. Ideal for headphone, phonograph or speaker connections. 2"x⅝".
A4061. SPEAKER.
A4062. PHONO.
A4063. PLAIN.
10 FOR 55c. EACH..... **6c**

TRIPLE TIP JACKS

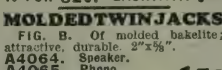
Laminated bakelite. For microphones, speakers, etc.
A4068. Plain.
10 FOR 82c. EACH..... **9c**

MOLDED TWIN JACKS

FIG. B. Of molded bakelite; attractive, durable. 2"x⅝".
A4064. Speaker.
A4065. Phono.
A4066. Plain. EACH.. **15c**

SHORTING TYPE

Particularly designed for use in point-to-point analyzers. Circuit automatically closes when cord tips are removed. Single mounting screw. Similar construction to above.
A6303. YOUR PRICE.. **18c**

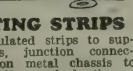


MOUNTING STRIPS

Handy insulated strips to support resistors, junction connections, etc., on metal chassis to prevent grounding and shorting.

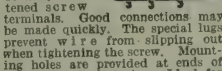
NO. LUGS	EACH	TEN
A2655 2	3c	22c
A2656 3	3c	25c
A2657 4	5c	40c
A2658 5	5c	45c
A2659 6	5c	45c

TERMINAL STRIPS



Attractive bakelite strips with securely fastened screw terminals. Good connections may be made quickly. The special lugs prevent wire from slipping out when tightening the screw. Mounting holes are provided at ends of strip for easy fastening. Ideal for amplifiers, radio sets, etc.

No.	Term	Each	TEN
A2135	2	9c	$0.81
A2136	3	12c	1.08
A2137	4	15c	1.35
A2138	5	19c	1.71
A2139	6	23c	2.07



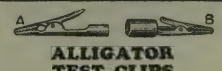
Fahenstock Connectors

Makes connections by holding wire firmly in spring grip.
A2150. Single, 1" long.
NET PER DOZ..... **11c**
A2151. Single, ¾" long.
NET PER DOZ..... **10c**
A2152. Double, 1¾" long.
NET PER DOZ..... **26c**
A2153. Double, 1½" long.
NET PER DOZ..... **25c**

EAGLE INDICATING FUSES

New type fuse which shows "OK" in window when fuse is good; "OK" vanishes when fuse blows.

A3995.	10 Amp.	5 FOR
A3996.	15 Amp.	
A3997.	20 Amp.	
A3998.	25 Amp.	**20c**
A3999.	30 Amp.	

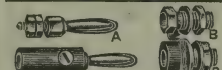


ALLIGATOR TEST CLIPS

Long, thin-nosed clips, easy to get into tight places. Handy for all test instruments. Back of clip fits all banana plugs. Strong spring grip.
A2041. FIG. A. 2" long.
Per Doz., 38c.
100 Lots, $3.15.
NET EACH **4c**
A2038. FIG. A. 2¾" long.
Per Doz., 54c.
100 Lots, $4.25.
NET EACH **5c**

Insulated Type

FIG. B. 2½" long.
A2042. RED.
A2043. BLACK.
Per Doz., 80c. EACH... **7c**
FIG. B. 3½" long.
A2098. RED.
A2099. BLACK.
Per Doz., $1.08. EACH... **10c**



BANANA PLUGS AND JACKS

A2048. FIG. A. New type plug, with tinned spring-brass plug-in prong. Ideal for use with any test equipment. 1⅛" long.
Per Doz., 41c.
100 Lots, $3.25. EACH.. **4c**
A2049. FIG. B. Nickel-plated brass jack to fit above plug. Complete with lug and nut. ⅝" long.
Per Doz., 41c.
100 Lots, $3.25. EACH.. **4c**

Insulated Type

PLUGS	JACKS
FIG. C	FIG. D
A2044 RED	A2046
A2045 BLACK	A2047

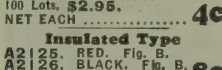
Per 100 Asstd., $4.90.
Per 10 Asstd., 55c.
NET EACH **6c**

SPLIT TYPE BANANA PLUGS

FIG. A. New type plug with split prong, giving much tighter contact between plug and jack. Will stand up under much heavier service than any other plug.
A2124. Doz., 38c.
100 Lots, $2.95.
NET EACH **4c**

Insulated Type

A2125. RED. Fig. B.
A2126. BLACK. Fig. B.
Doz., 85c. EACH..... **8c**



BABY BANANA PLUGS AND JACKS

A new small banana plug and jack made especially for coil mountings. Made of hard brass, nickel-plated.
A2127. PLUG. Per Doz. 40c. Per 100, $3.15.
NET EACH **4c**
A2128. JACK. Per Doz. 40c. Per 100, $3.15.
NET EACH **4c**

Insulated Type

PLUGS	JACKS
A2129 RED	A2131
A2130 BLACK	A2132

Per Doz., 59c.
Per 100, $4.55.
NET EACH **6c**

TIP JACKS

A2026. FIG. A. Nickel-plated tip jacks requiring a minimum of panel mounting space. Bronze springs grip phone or speaker cord tips firmly for positive connection. Requires only ¼" mounting hole. Will fit panels up to ⅜" thick. Wt., 2 oz.
Per Doz., 32c. EACH.... **3c**
A2025. FIG. B. Heavy spring contact with positive action. Short, compact type for limited space. Requires ¼" mounting hole. Will fit panels up to ¼" thick. Full nickel-plated.
Per Doz., 32c. EACH.... **3c**

INSULATED TYPE

New type sure grip-contacts for smooth positive action. Insulated head and shoulder washer. Ideal for use on metal chassis or panels for headphone or speaker output, or for test equipment.
A2032. FIG. C. RED.
A2033. FIG. C. BLACK.
Per Doz., 59c.
100 Lots, $4.55. EACH.. **6c**

Banana Plug or Tip Jack

FIG. D. A new insulated jack arranged to take either standard phone tips, or the new popular banana type plugs. Insulated head and shoulder washer. ¼" mtg.
A2036. RED.
A2037. BLACK.
Per Doz., 85c.
100 Lots, $6.50. EACH.. **8c**

Yaxley Colored Tip Jacks

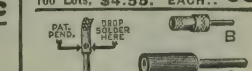
2 in a package. Bakelite caps, one red, one black. Insulated type. Fits ⅜ in. hole. Spring contact with solder lug connections. Takes standard cord tip.
A6305. Per set of 2.
List, 25c. NET..... **15c**

IMP PLUGS

A2027. FIG. A. A midget plug with screw-on solderless connection. Fits all standard tip jacks.
Per Doz., 38c.
100 Lots, $2.85.
NET EACH **4c**

Insulated Type

A2034. FIG B. RED.
A2035. FIG. B. BLACK.
Per Doz., 59c.
100 Lots, $4.55. EACH.. **6c**



CORD TIPS

FIG. A. Practical new design. Hole in side allows a quick and easy connection to be made; just insert wire and apply solder to hole.
A2030. Per 100, 72c.
A2031. Per 10 ..... **8c**
FIG. B. Standard size tip, 1⅛" long. Solderless screw-on connection. Made of nickel-finished brass.
Per 100, $2.45.
A2040. EACH **3c**
FIG. C. Standard nickel-plated brass cord tips; will fit any regular tip jack.
A2028. Per 100, 50c.
A2029. Per 10 ..... **6c**

Quality SWITCHES · JACKS · PLUGS

H & H TOGGLE SWITCHES

Underwriters approved; rated at 3 amps.—125 V., 1 amp.—250 V. Oxidized bronze finish. Threaded stem, 15/32" dia. Supplied with two lock-nuts. Have fibre insulation and solder lug connections. For sets, meters, lamps, etc.

SINGLE POLE SINGLE THROW (2 LUGS)

No.	Stem	NET
A5450.	⅜ in.	19c
A5451.	¾ in.	22c
A5452.	1 in.	23c

SINGLE POLE DOUBLE THROW (3 LUGS)

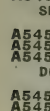
A5453.	⅜ in.	22c
A5454.	¾ in.	24c
A5455.	1 in.	27c

DOUBLE POLE SINGLE THROW (4 LUGS)

A5456.	⅜ in.	26c
A5457.	¾ in.	29c
A5458.	1 in.	30c

DOUBLE POLE DOUBLE THROW (6 LUGS)

A5459.	⅜ in.	39c
A5460.	¾ in.	43c
A5461.	1 in.	45c



TOGGLE SWITCH PLATE

An inexpensive "on" and "off" toggle switch plate. May be used with any standard panel type toggle switch. Finished in statuary bronze. 15/32" hole.

A5467.
NET EACH **4c**

H & H ROTARY SWITCHES

Positive contact rotary type power switches rated at 3 amps.—125 V., 1 amp.—250 V. Steel cased. Shaft ⅞" long, ¼" dia. ⅜" threaded stems for panel mounting. Supplied with lock-nuts. Underwriters approved.

A5462. Single Pole, Single Throw. 2 contacts.
NET **17c**

A5463. Single Pole, Double Throw. 3 contacts.
NET **23c**

A5464. Double Pole, Single Throw. 4 contacts.
NET **39c**

A5465. Double Pole, Double Throw. 6 contacts.
NET **44c**

G. E. ROTARY A. C. SWITCH

On and off switch. With 8" insulated leads. Rated 3 amps., 125 volts. Shaft extends ½ in. beyond bushing. Complete with bakelite knob. Underwriters' approved. Outstanding value.

A2915.
10 Lots, 80c. EACH **9c**

SWITCH LOCK

For automobile radios, loud speakers in hotel rooms, etc. Key can be withdrawn only in locked position. Nickel plated. ¾ in. diameter of body. Switch is not grounded. With two keys. Has tumbler lock. Single pole, two terminals. Controls one circuit.

A2905. List, $1.00.
NET **50c**

PORCELAIN KNIFE SWITCHES

Glazed porcelain base. Heavy copper blade with insulated handle. Machine screw terminals are provided.

A6185.	S.P.S.T. 1⅛"x2½". NET	**12c**
A6186.	S.P.D.T. 1⅛"x3⅜". NET	**14c**
A6187.	D.P.S.T. 2⅛"x2¾". NET	**22c**
A6188.	D.P.D.T. 2⅛"x4". NET	**25c**

MIDGET KNIFE SWITCHES

For panel or base mount. Nickel - plated blades and contacts; bakelite base. Reliable switches.

A6515.	S.P.S.T. ½"x1¼". NET	**9c**
A6516.	S.P.D.T. ½"x1¼". NET	**15c**
A6517.	D.P.D.T. 1"x1¼". NET	**24c**

MIDGET PORCELAIN KNIFE SWITCHES

Neat and compact; mounted on glazed porcelain base. Blades have insulated handles. With screw terminals. For open or concealed wiring.

No.	Type	
A1275.	S.P.S.T. 1"x2¼". NET	**10c**
A1276.	D.P.S.T. 1⅜"x1¾". NET	**17c**
A1277.	S.P.D.T. 1"x2⅝". NET	**12c**
A1278.	D.P.D.T. 1½"x2⅝". NET	**19c**
A1279.	3 P.D.T. 2¼"x2⅝". NET	**45c**

PUSH-BUTTON SWITCHES

Cadmium - plated springs. Positive, non-corrosive contacts. Fully insulated. Bakelite knobs. ⅝" hole mounting. Locking type makes contact with knob pushed in. Non-locking type, with knob pushed in; returns to open when pressure on knob is released.

LOCKING TYPE

No.	Type	List	NET
A8960	S.P.S.T.	$0.90	$0.53
A8961	D.P.S.T.	1.20	.71
A8962	S.P.D.T.	1.00	.59
A8963	D.P.D.T.	1.50	.88

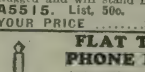
NON-LOCKING TYPE

A8964	S.P.S.T.	$0.90	$0.53
A8965	D.P.S.T.	1.20	.71
A8966	S.P.D.T.	1.00	.59
A8967	D.P.D.T.	1.50	.88

DOUBLE PHONE PLUG

Molded of brown bakelite. Hardware brass nickel plated. Takes 2 sets of cord tips which are held firmly in place with screws. Rugged and will stand hard usage.

A5515. List, 50c.
YOUR PRICE **19c**



FLAT TYPE PHONE PLUG

Automatic, nothing to take apart; just push in cord tips and plug is ready for use.

A3972. NET **12c**

YAXLEY GANG SWITCHES

New type universal switches for use in test instruments, Short Wave sets, and for general radio and laboratory use. All switches are provided with one permanent stop and one adjustable stop. Adjustable stop may be set permanently at any position desired. Rigidly built; no play or wearing. Has laminated bakelite insulation and phosphor-bronze springs. ⅞x⅞" mounting hole. Gangs spaced ½" apart. Complete with knob but less dial plate.

SINGLE GANG SWITCHES

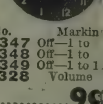
No. Shorting Type	No. Non-Shorting Type	Poles	Pos.	List Each	NET EAC
A6307	A6312	1	1-6	$1.00	$0.5
A6308	A6313	1	1-11	1.15	.6
A6309	A6314	2	1-5	1.25	.7
A6310	A6315	3	1-3	1.35	.7
A6311	A6316	4	1-2	1.45	.8

TWO GANG SWITCHES

A6318	A6323	2	1-6	$1.60	$0.9
A6319	A6324	2	1-11	1.75	1.0
A6320	A6325	4	1-5	2.00	1.1
A6321	A6326	6	1-3	2.10	1.2
A6322	A6327	8	1-2	2.25	1.3

PLATES FOR YAXLEY SWITCHES

Attractive numbered dial plates with numbers etched in white. For use with Yaxley switches above or with volume and tone controls, etc. Have ⅜" center hole.



No.	Marking	No.	Marking
A6329	0 to 100	A6338	1 to 9
A6330	1 to 15	A6339	1 to 10
A6331	1 to 2	A6340	1 to 11
A6332	1 to 3	A6341	1 to 12
A6333	1 to 4	A6342	Off—1 to 3
A6334	1 to 5	A6343	Off—1 to 4
A6335	1 to 6	A6344	Off—1 to 5
A6336	1 to 7	A6345	Off—1 to 6
A6337	1 to 8	A6346	Off—1 to 7

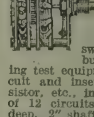
No.	Markin
A6347	Off—1 to
A6348	Off—1 to
A6349	Off—1 to 1
A6328	Volume

YOUR PRICE
EACH SWITCH PLATE **9c**

YAXLEY 15 POINT TAP SWITCH

Adaptable to many multiple switching requirements. 15 positions, with shorting type selector blade. Single hole mounting. Supplied with bar knob and etched dial plate. Wiping contacts cannot corrode. 2½" diam. 1" deep.

A6370. NET **88c**



YAXLEY CIRCUIT OPENING SWITCH

Circuit breaking switch. Useful in building or modernizing test equipment. Will open circuit and insert milliammeter, resistor, etc., in series with any one of 12 circuits. 2½" diam. 1⅝" deep. 2" shaft. Single hole mount. Complete with dial and bar knob.

A6371. List, $4.50.
YOUR PRICE **$2.65**

INDUCTANCE SWITCHES

A well made compact switch. Useful in test equipment, etc. Nickel-plated type with pointer knob. ⅜ in. hole mtg.

No.	Points	
A8950	3	NET
A8951	5	EACH **59c**
A8952	7	NET
A8953	9	EACH **73c**
A8954	12	

MIDGET SHORT JACKS

⅝ in. mounting, heavy bakelite insulators.

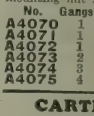
A8982. No. 1. Open Circuit. Output type.
NET **14c**

A8983. No. 2A. Single Closed Circuit type.
NET **14c**

CARTER FLAT PLUG

Popular flat plug. Only 1 1/16 in. dia., ¼ in. thick. Ideal for wall plate connection. Cord tips held tightly by screws. Polarity shown. Of molded bakelite.

A8956. List, 50c.
YOUR PRICE **28c**



SHORT WAVE SELECTOR SWITCHES

Designed for use in new type sets having from two to five wave bands. Sturdily constructed with self-wiping contacts of shorting type. Bushing ⅜" dia., with ⅜"x¼" steel shaft. Laminated bakelite insulation. Supplied with mounting nut and lock washer.

No.	Gangs	Poles	Pos.	NET
A4070	1	3	3	$0.38
A4071	1	4	2	.38
A4072	1	2	5	.64
A4073	2	4	5	.94
A4074	3	6	5	1.33
A4075	4	8	5	1.58

CARTER JACK SWITCHES

Compact. Tempered steel frame. Cadmium-plated springs. Positive in action. Equipped with bakelite pointer knob and lock nut. Reliable jack switches that give positive action and long wear.

3 POSITION

All double throw types, with center "off" positions. 7/16 in. mounting. 1¼ in. deep.

No.	Pole	List	NET
A8969	1	$0.65	$0.50
A8970	2	1.20	.71
A8971	3	1.55	.91
A8972	4	1.95	1.15

OUR PRICES ARE ALWAYS LOWER—WE WILL NOT BE UNDERSOLD

SOCKETS • PLUGS • CONNECTORS

SHIELDED CABLE CONNECTORS

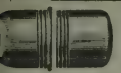
Exceptionally rugged construction. Insulated steel cap snaps over Clip-Tite socket (or plug); provides perfect electrical shielding. Has rubber grommet in end to protect cable. Spring contacts assure perfect connection. Black japan finish. Diameter ¼" ; only 1¼" long.

MALE CONNECTORS

No.	Prongs	
A1630	4	NET EACH
A1631	5	
A1632	6	15c
A1633	7S	
10 FOR		$1.35

FEMALE CONNECTORS

No.	Prongs	
A1635	4	NET EACH
A1636	5	
A1637	6	15c
A1638	7S	
10 FOR		$1.35



LOCKING TYPE METAL SLEEVES

Cadmium-plated steel shells; designed to slip over connectors listed above and screw together. Ideal for public address use.

A1640. Set, 2 pieces... **15c**

CHASSIS TYPE

Same design as type listed above, except that the female section has a flange to fit under Clip-Tite socket, when mounted on a chassis. Provides locked connection.

A1988. Set of 2 pieces.. **15c**

RUBBER PLUG HANDLE

A heavy rubber plug handle designed to fit snugly over the shielded cable connectors, male and female, listed above. Made of tough, flexible rubber.

A1989. EACH.. **9c**

CHASSIS TYPE CONNECTORS

Completely shielded cable connectors. Positive connection provided by cadmium plated bronze contacts. Shielded coupling ring locks male and female units securely.

Octal

A1990. Male, 8 prongs and guide key.
A1991. Female, 8 holes and center keyed guide hole.

Standard

A2010. Male, RMA 6 prongs.
A2011. Female, RMA 6 holes.
NET EACH **35c**

CABLE TYPE

For connecting extension cables together. Cables cannot pull apart; couplings lock securely with threaded ring.

Octal

A1992. Male, 8 prong, guide key.
A1993. Female, 8 holes.

Standard

A2012. Male, RMA 6 prongs, with coupling ring.
A2013. Female, RMA 6 prong with threads.
NET EACH **73c**

NEW CLIP-TITE BAKELITE SOCKET

A new type sturdy socket made of molded bakelite, with long contacts which grip the tube prongs firmly. May be mounted in any position. Each socket is mounted in a special universal adapter plate, which enables you to replace any wafer socket, regardless of mounting centers.

No.	Prongs	EACH
A2015	4	7c
A2016	5	
A2017	6	
A2018	7 medium	10 LOTS
A2019	7 small	65c

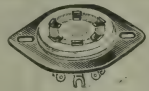
A2020. Combination 7 Medium and 7 Small.
NET EACH **9c**

8 Prong Octal Socket

A new molded bakelite socket of same construction as above, to fit new octal base tubes.

A2021. 10 lots, 85c
YOUR PRICE EACH..... **9c**

NEW CLIP-TITE STEATITE SOCKETS



The ideal socket for short wave receivers and transmitters. New low-loss design of glazed steatite. With special universal mounting plate.

No.	Prongs	EACH	PER 10
A1995	4	24c	
A1996	5		$2.25
A1997	6		
A1998	7S	29c	
A1999	7M		$2.75
A1994	8 Octal		

BAKELITE MALE CONNECTOR PLUG

A sturdy neat two piece molded bakelite connector plug for speaker connections, etc.

No.	Prongs	
A1836	4	EACH
A1837	5	
A1838	6	15c
A1839	7M	
A1840	7S	
A1841	8 (Octal)	

TWO PIECE CONNECTORS

Connectors of two piece molded bakelite construction. Sure grip handles; sturdy contacts and pins. Ideal for microphone or speaker plugs, etc.

Male Connectors

No.	Prongs	
A1807	4	EACH
A1808	5	
A1809	6	18c
A1810	7M	
A1811	7S	
A1806	8 (Octal)	

Female Connectors

No.	Prongs	
A1813	4	EACH
A1814	5	
A1815	6	24c
A1816	7M	
A1817	7S	
A1818	8 (Octal)	

SUB-PANEL SOCKETS

Laminated bakelite construction. Sturdy and reliable. Top entirely insulated. Full floating contacts, self-aligning, and of one piece construction for low resistance connection. Sturdily made for enduring service. Each socket has tube locating ring for quick tube insertion.

STANDARD SIZE

1 7/32" Mounting Centers

No.	Prongs	EACH	PER 10
A4020	4	5c	45c
A4021	5		
A4022	6		
A4023	7M		
A4024	7S		

MIDGET SIZE

1½" Mounting Centers

No.	Prongs	EACH	PER 10
A4026	4	5c	45c
A4027	5		
A4028	6	6c	55c
A4029	7M		
A4030	7S		

NEW OCTAL SOCKET

A new small size socket of wafer construction designed to accommodate all of the new octal base tube types. A single socket will fit all metal, metal-glass and octal base glass tubes having 4, 5, 6, 7 or 8 prongs. 1½" mounting centers.

A4099. 10 FOR 55c. YOUR PRICE, EACH..... **6c**

ALDEN 'TUNING FORK' CONTACT SOCKETS

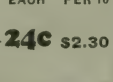
New type molded bakelite sockets for test equipment use. Silver-plated floating "tuning fork" contacts assure long life, even under severe use. Mount above or below panel. 1 19/32" mounting centers.

No.	Prongs	EACH	PER 10
A1690	4	24c	$2.30
A1691	5		
A1692	6		
A1693	7M		
A1694	7S		
A1695	8 Octal		

EBY BAKELITE SOCKETS

One-piece molded black bakelite construction. Suitable either for baseboard or sub-panel mounting. Sturdy contact guides. 1 11/16" mounting centers.

No.	Prongs	
A4000	4	Each 18c
A4001	5	
A4002	6	
A4003	5 and 6	Each 24c
A4004	7M & 7S	
A4005	7M (.855)	
A4006	8 Octal Base	26c



EAR TYPE SOCKETS

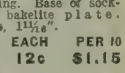
A small size molded bakelite socket with ears for mounting under panel or chassis. Especially suitable for use in test instruments. 1 19/32 inch mounting centers.

No.	Prongs	NET EACH
A1785	4	15c
A1786	5	
A1787	6	10 FOR
A1788	7M	$1.40
A1789	7S	

COMPOSITE TYPE

Composite panel mount sockets for modernizing test instruments.

No.	Prongs	NET EACH
A1795	4-5-6	29c
A1796	5-7M	
A1797	7M-7S	
A1798	5-6-7S	
10 FOR		$2.75



EBY COMPACT SOCKETS

Molded bakelite sockets for sub-panel mounting. Base of socket is laminated bakelite plate. Mounting centers, 1 11/16".

No.	Prongs	EACH	PER 10
A4007	4	12c	$1.15
A4008	5	15c	
A4009	6		
A4010	7S		1.35
A4011	7M		
A4012	8 Octal	18c	1.65

EBY ISOLANTITE SOCKETS

Ideal for H.F. use. Large positive contacts. Oval holes for 1 11/16" to 1 27/32" mounting.

No.	Prongs	EACH	PER 10
A4015	4	29c	$2.85
A4016	5	32c	3.10
A4017	6		
A4018	7S		
A4019	7M		
A4014	8 Octal	35c	3.40

HEAVY-DUTY RUBBER HANDLE PLUGS

Molded bakelite plugs and sockets mounted in pliable unbreakable rubber handles. These plugs and sockets prevent wire breakage. Handles are 2½" long.

MALE PLUGS

No.	Prongs	NET EACH
A4035	4	15c
A4036	5	
A4037	6	
A4039	7S	

FEMALE SOCKETS

No.	Prongs	NET EACH
A4040	4	23c
A4041	5	
A4042	6	
A4043	7M	
A4044	7S	

BASE MOUNT SOCKETS

A molded bakelite socket for panel or baseboard mounting. Rugged contacts will withstand severe usage. 1⅞" diameter, with nickel-plated knurled binding posts. Ideal for experimental use.

No.	Prongs	EACH	PER 10
A1800	4	21c	$1.95
A1801	5		
A1802	6		
A1803	7M		
A1804	7S		
A1805	8 (Octal).	Each.... 44c	

BLOW TORCHES·PLIERS·SCREWDRIVERS

POPULAR LENK BLOW TORCHES

HI-HEAT BLOTORCH

This heavy-duty blow torch assures perfect results. Features flame control, shut-off valve, and non-clogging burner. Fool-proof in design and construction; self-cleaning type. Generates quickly from asbestos-filled drip-cup. Produces a 2000° F. flame. The tank is of heavy gauge seamless drawn brass, with funnel shaped bottom for easy filling. Height 7½ inches; diameter at base 3 inches. Two models are available, either for alcohol or gasoline fuel.

A6224. Type 104. Uses gasoline. List, $2.00. YOUR PRICE..... **$1.18**

A6223. Type 105. Uses alcohol. List, $2.25. YOUR PRICE..... **$1.32**

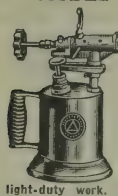
DUO-DUTY BLOTORCH

MODEL 350

A substantially built, heavy-duty alcohol Blotorch. Ideal for all heavy soldering jobs. Equipped with double burner; one for needle-point flame, and one attachment for heavy, intense flame. Filter screen in jet keeps orifice from plugging; cleaning pin is kept conveniently in handle. Shpg. wt., 2 lbs.

A6225. List. $4.00. SPECIAL..... **$2.35**

MODEL 145 BLOTORCH



A sturdily built gasoline torch for all heavy soldering jobs. Special burner gives hot blue flame; new needle-valve design prevents enlargement of orifice. Pump is completely enclosed and leak-proof. Tank holds a quart of fuel. Has heat-resisting Bakelite valve wheel. Shpg. wt., 4½ lbs.

A6229. YOUR PRICE. **$3.60**

A6214. Type 144. A handy gasoline torch for light-duty work. Has top-filling heavy brass tank; efficient burner and safety pump. Capacity, one quart. Wt. 4 lbs. NET..... **$2.85**

MODEL 24 BLOTORCH

Entirely automatic in operation. Uses alcohol for fuel. Has copper heat conductor for quick generation of gas. Made of nickel-plated brass. Solid leakproof base. Ideal for shop use. Handy size, 5½x2⅛x1 inches.

A6221. YOUR PRICE..... **69c**

IMP GASOLINE HAND TORCH

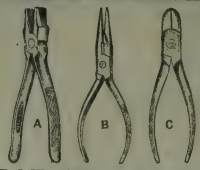
Entirely automatic gasoline hand torch. Flame temperature is over 2000°. No pumping or blowing necessary. Ideal for use where a fusing or brazing heat is desired.

A6226. List. $1.00. NET..... **59c**

NEW G-L MICROMETER

Just the thing for the home workshop. Precision-built and guaranteed accurate within 1/1000 of an inch. Anvil and spindle of hardened steel; accurately calibrated. Zero setting in anvil. Finished in hard, polished chrome. Standard 1" size.

A5175. YOUR PRICE..... **98c**



KRAEUTER PLIERS

Known everywhere; used everywhere. Perfectly made of quality materials. Scientifically heat-treated and hardened. Popular types are listed below. Equipped with famous "Don't-Slip" handles. Will give life-time service. Cutting surfaces are designed to clip a great number of materials without nicking. American-made.

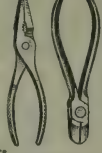
A7806. Type B. 6 Inch Needle-Nose Side Cutter. YOUR PRICE..... **94c**

A7807. Type A. 6½ Inch Electrician's Type. YOUR PRICE..... **$1.05**

A7808. Type C. 4½ Inch Diagonal Cutters. YOUR PRICE..... **$1.10**

A7805. Type C. 5½ Inch Diagonal Cutters. YOUR PRICE..... **$1.20**

RADIO PLIERS



Well-made handy pliers for radio and electrical work. Made of fully-polished forged tool steel. Diagonal cutting type (5½" long) has hardened and tempered cutters with knurled gun-metal finish handles. Thin nose type (6" long) are nickel plated. Stoutly built to give lasting service. Excellent tool values.

A7800. Diagonal Cutting Pliers.
A7801. Thin Nose Type.
YOUR PRICE EACH..... **33c**

SPECIAL LONG NOSE SIDE-CUTTING PLIERS

High quality pliers carefully made of hardened forged steel. Knives are well fitted, and are ground to make a clean easy cut. 5 inches long. Particularly useful in radio construction and repair work. A quality tool at a low price.

A7802. YOUR PRICE..... **39c**

NEW MULTIPLEX TOOL

A handy, indispensable tool with 101 uses. Useful as a small screwdriver or pliers; does many other jobs, such as holding small pieces for soldering or for assembling. Does a quick job of starting screws and nuts in hard-to-get-at places. No serviceman or experimenter should be without this tool.

A1644. YOUR PRICE..... **$1.32**

FRICTION TAPE

Made of good quality fabric impregnated with adhesive rubber compound. With high insulation qualities. Made especially for radio and electrical work. Easy to apply; will not dry out.

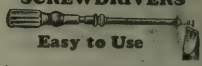
A1270. 2 oz. roll. NET..... **6c**
A1271. 4 oz. roll. NET..... **9c**
A1272. 8 oz. roll. NET..... **17c**

SCOTCH ELECTRIC TAPE

A neutral paper backing, touch-sensitive adhesive. Will adhere to any surface. ½" wide.

A1266. YOUR PRICE, 10 Yard Roll..... **29c**

GRIP POINT UTILITY SCREWDRIVERS



Easy to Use

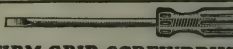
Revolving tongue engages screw slot and holds screw firmly. Instantly released or locked by a slight movement of the thumb. Length 9¾" overall.

No.	For Screw Sizes		
A2596	1-6	EACH.....	**62c**
A2592	8-20		
PER SET OF 2.....			**$1.18**

NON-SKID SCREWDRIVER

Shock-proof, with ribbed points. Handy fountain pen style with clip.

A2583. 3-inch blade. NET..... **14c**
A2582. 2-inch blade. NET..... **12c**
A2581. 1½-inch blade. NET..... **10c**



FIRM-GRIP SCREWDRIVERS

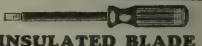
Forged chrome-vanadium alloy steel blades, accurately ground to fit screw slot; tough hammer-proof Amberlite handles.

A2574. 3 INCH BLADE. YOUR PRICE..... **34c**
A2575. 6 INCH BLADE. YOUR PRICE..... **43c**
A2576. 8 INCH BLADE. YOUR PRICE..... **52c**

HANDY LOW COST SCREWDRIVER KIT

A popular kit of three screwdrivers in the most useful sizes. Comes in convenient leatherette holder for shop wall mounting. Each screwdriver has insulated handle and finger guard. Blades measure 5½", 3½", 2⅜".

A5186. NET PER SET..... **38c**

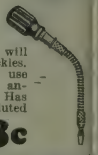


INSULATED BLADE SCREWDRIVER

A 5 inch screwdriver with attractive mottled red and black composition handle, designed to give a comfortable, sure grip. High quality steel blade is insulated almost its entire length; withstands 10,000 volts.

A2577. YOUR PRICE..... **16c**

FLEXIBLE SHAFT SCREWDRIVER



Here is a screwdriver that will eliminate a lot of skinned knuckles. Special flexible shaft allows its use in many awkward places where another screwdriver couldn't reach. Has insulated movable screw locator, fluted molded handle. 8¾" long.

A2578. YOUR PRICE..... **88c**

POCKET TOOL CASE

A high grade, two partition case that you can carry in your hip pocket. Will hold a great number of small tools. Made of genuine leather, double sewed, with snap-on flap. Saves wear and tear on your pockets.

A1643. YOUR PRICE..... **59c**

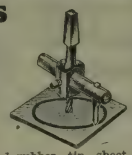
END WRENCH SET

A handy little wrench set with many uses. Wrenches stamped from high grade steel, properly hardened for long service. Cadmium-plated; cannot rust. Wrenches are ¼"x5/16", 3/8"x7/16", and ½" with alligator jaw.

A2078. Complete set of 3 wrenches. NET..... **10c**

Quality TOOLS for Every Purpose

CIRCLE CUTTERS



Designed to cut large holes accurately and quickly. May be used in slow-speed drill press or hand-brace. Ideal for radio set-builders, servicemen, carpenters. Type No. 5 is designed for heavy-duty work; Type No. 4 is a standard professional cutter, heavy bar construction; Junior type is for light work on softer materials. These tools will cut holes in wood, bakelite, hard rubber, tin, sheet metal, etc. Low-priced. American-made.

A5178. No. 4. Cuts holes 1 to 4 inches in diameter. NET **$1.29**

A5181. JUNIOR. Cuts holes ⅝ to 2½ inches in diameter. NET **78c**

A5184. Extra cutters for No. 4 and No. 5 tools. NET EACH **24c**

A5182. No. 5. Square shank. Cuts holes 1 to 5½ inches in diameter. YOUR PRICE **$1.88**

A5177. No. 5. Round Shank. NET EACH.... **$1.88**

SPIN-TYPE SOCKET WRENCHES

A complete selection of high grade hexagonal socket wrenches for every radio requirement. Sockets are of hardened tool steel designed to grip surely. Shanks are of heavy steel with ribbed wood handles, easy to grasp and use. All wrench shanks are cadmium-plated. Offset type is handy for reaching into tight places. Sizes listed below will handle all standard nut sizes used in radio work. Order a complete set of these American-made tools.

A TYPE AND SIZE FOR EVERY RADIO PURPOSE

Nut Size	6" Straight		9" Straight		6" Offset Type	
5/16 inch	A2055	NET	A2062	NET	A2069	NET
¼ inch	A2056	EACH	A2063	EACH	A2070	EACH
5/16 inch	A2057		A2064		A2071	
⅜ inch	A2058		A2065		A2072	
7/16 inch	A2059	**10c**	A2066	**12c**	A2073	**12c**
½ inch	A2060		A2067		A2074	
Per Set of Six		**53c**	Per Set of Six	**63c**	Per Set of Six	**63c**

GOODELL-PRATT HAND DRILL

Highly serviceable with solid steel frame and single speed, cut gears. Equipped with three-jawed chuck holding any size drill up to ¼". Large gear, red enameled. Mahogany finished hardwood handle. Solidly built to give good service. A rare value in a good American-made tool. Length, 10⅝ in. Shpg. wt., 3 lbs.

A5185. YOUR PRICE **79c**

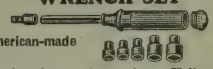
SOCKET AND CONDENSER PUNCHES

Punches clean round holes in sheet metal (chassis bases, panels, etc.). Easy to use, saves time; no pre-drilling necessary. Made of highest grade rustproof hardened steel to give lasting service. New pin-point center piercing pin cuts through without drilling; contour edges cut clean, accurate holes. All punches are dieremed and oil-tempered. These punch sets are all American-made tools and will prove invaluable to radio builders and servicemen.

A1649. For ½" Holes. YOUR PRICE **$1.06**

A1645. For 1⅜" Holes.
A1646. For 1⅛" Holes.
A1647. For ⅞" Holes.
A1648. For ¾" Holes.
List, $3.00.
YOUR PRICE EACH..... **$1.69**
SET OF 5 PUNCHES..... **$7.50**

HOLLOW HANDLE WRENCH SET



American-made

Ideal for shop and tool bag. Hollow handle holds all sockets. Sizes ¼", 5/16", ⅜", 7/16", ½" and screwdriver socket. 7½" long. Handle heavily knurled for good gripping surface. White nickel finish.

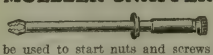
A5183. YOUR PRICE..... **55c**

ASSORTED DRILL SET

A real value. High quality twist drill set containing the popular sizes necessary for radio and other work. Set consists of 9 carbon steel drills ranging from 3/16 to 3/16 sizes in 1/64 inch size graduations. American-made.

A7720. NET..... **81c**

MUELLER SNAPPER



May be used to start nuts and screws in out-of-the-way places; serves as test clip in inaccessible spots, or may be used as a prod contact. Consists of universal clip mounted in a long insulated tube. Push-button on the top opens and closes clip.

A6483. RED.
A6484. BLACK. EACH..... **39c**

LOCK-SOCKET WRENCH SET AND SCREWDRIVER

A set of 9 sockets in assorted sizes to handle hex, square and round nuts. Consists of 1—¼" hex socket mounted on 3¾" straight extension; 5 hex sockets in ¼", 5/16", ⅜", 7/16", ½" sizes, 2 square sockets in ½" and 5/16" sizes, 1 round nut socket, 1 "L" shaped extension 4" long and 1 screwdriver wrench handle. Patented locking device holds tools firmly to handle. American-made.

A5516. YOUR PRICE..... **85c**

NEW SERVICE KIT

Includes the following: 2 long prod handles, 2 short prod handles, 2 phone tips, 2 phone tip jacks, 2 spade lugs, 2 alligator clips, 6 ft. red and black flexible wire; 2 insulated screwdrivers (1½" and 2½"); 6 socket wrenches (2—6", 2—9", 2—offset type); hardware kit (tips, jacks, grid caps); leather kit of 3 open end wrenches; 3 in 1 neutralizing tool, and compensating screwdriver.

A2107. List, $5.50. NET..... **$2.95**

MORRIS COIL WINDER

Universal coil-winding machine. Will wind Honeycomb, Spider Web, Solenoid coils, etc., in different widths and diameters and will handle wire of different gauges. Makes precision coils that equal factory accuracy. Has recorder with adjustable pointer for counting number of turns. An ideal machine for the experimenter or small factory. Shpg. wt., 4 lbs.

A9302. List Price, $7.50.
NET **$4.35**

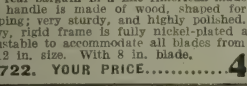
SOCKET WRENCH SET

American-made

A set of five detachable sockets of fine wrought steel. Complete with wrench handle. In popular sizes, ¼, 5/16, ⅜, 7/16 and ½ in.

A2585. YOUR PRICE..... **37c**

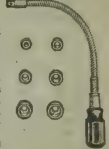
PISTOL GRIP HACKSAW



A real bargain in a fine American-made tool. The handle is made of wood, shaped for easy gripping; very sturdy, and highly polished. The heavy, rigid frame is fully nickel-plated and is adjustable to accommodate all blades from 8 in. to 12 in. size. With 8 in. blade.

A7722. YOUR PRICE..... **42c**

FLEXIBLE DRIVE SOCKET SET



Flexible laminated steel shaft will bend around corners. Permits handling of nuts which are inaccessible to ordinary tools. Has comfortable fluted wood handle, 10" long; equipped with six hexagon sockets sizes 5/16", ¼", 5/16", ⅜", 7/16" and ½". Nickeled sockets easily interchangeable.

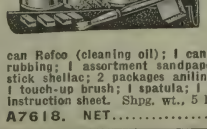
A5170. NET... **$1.76**

QUALITY HACKSAW BLADES

Flexible blades of special alloy steel, heat-treated to produce toughness. Teeth are case-hardened, set and filed. 24 teeth per inch.

A7724. 8" BLADE.
YOUR COST, PER DOZEN..... **39c**
A7725. 10" BLADE.
YOUR COST, PER DOZEN..... **45c**
A7726. 12" BLADE.
YOUR COST, PER DOZEN..... **54c**

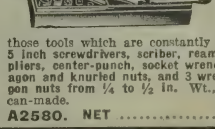
RCA CABINET REFINISHING KIT



You can repair scratched, dented, or marred furniture with this new kit. Contained in a compact durable leatherette case, 9½x4½x2¼ inches. Contains: 1 can Refco (cleaning oil); 1 can of Valvoline for rubbing; 1 assortment sandpaper; 1 assortment stick shellac; 2 packages aniline stain powders; 1 touch-up brush; 1 spatula; 1 rubbing block; 1 instruction sheet. Shpg. wt., 5 lbs.

A7618. NET..... **$2.90**

RADIO TOOL CHEST

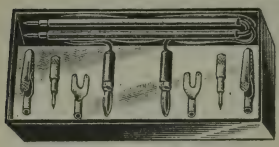


Inexpensive tool chest. Contains 10 practical tools. Ideally suited for the service man and set builder. Each tool of sturdy construction. Comprises those tools which are constantly in need—3 and 5 inch screwdrivers, scriber, reamer, countersink, pliers, center-punch, socket wrench sets for hexagon and knurled nuts, and 3 wrenches for hexagon nuts from ¼ to ½ in. Wt., 2 lbs. American-made.

A2580. NET **$2.25**

NEUTRALIZING TOOLS·TEST LEADS·FITTINGS

SERVICE TEST LEADS AND KITS



PENCIL PROD TEST KIT

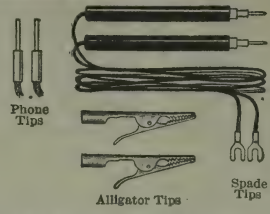
A serviceable kit that meets every testing need. Handles are 6" long with 5 foot leads attached to banana type plugs. Each kit contains 2 alligator clips, 2 needle point tips, and 2 spade lug tips, all of which fit tightly on banana tips of test leads. Interchangeable tips make this kit ideal for all types of testing.
Wt. 1 lb.
A2106. List, $1.50. NET..... **72c**

AMERICAN TEST KIT

A complete test kit with innumerable uses. Consists of: 2—4", 2—2½" and 2—1¾" test prod handles with banana type plugs, each pair red and black; 2 needle-point, 2 alligator clip and 2 spade lug solderless tips—designed to fit banana plugs of handles. Also 1 red, 1 black banana jacks.
A2121. YOUR PRICE **$1.18**

NEEDLE-POINT TEST LEADS

Equipped with needle points for making good contact through insulation or pitch. 4" handles; ⅜" thick. 45" leads.
WITH KINKLESS WIRE LEADS
A5496. Phone Tips.
A5497. Spade Tips.
PER PAIR **29c**
A5498. Alligator Terminals. PER PAIR.... **36c**

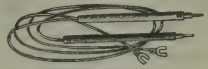


HEAVY DUTY LAB MODEL WITH KINKLESS WIRE LEADS

All-purpose leads for practically any test need. Flexible, rubber-covered kinkless wire fitted into heavy 7/16 inch handles, one red and one black. Handles are 6½ inches long with pointed tips. Leads are 40 inches long.
A5490. Phone Tips..... } PER
A5491. Spade Tips..... } PAIR **42c**
A5492. Alligator Terminals.
PER PAIR **53c**

UNIVERSAL TEST LEADS

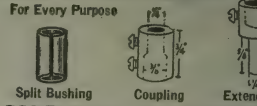
High-grade test leads with solderless phone tips at one end and banana type plugs at other end. Sturdy handles; one red, one black. Kinkless leads are 44 inches long. Plugs fit all banana type jacks.
A2120. YOUR PRICE..... **53c**



SERVICE TEST LEADS

Popular test prods with solderless phone tips. 4" handles; ⅜" thick. 45" wires. Prod wire is securely tightened by knurled nut.
WITH KINKLESS WIRE LEADS
A5493. Phone Tips..... } PER
A5494. Spade Tips..... } PAIR **25c**
A5495. Alligator Terminals.
PER PAIR **35c**

SHAFT FITTINGS



COUPLINGS and EXTENSIONS

Couplings are designed for extending shafts of volume controls, condensers, etc., or for ganging single units, even when shafts are not of same diameter. Extenders are for decreasing or increasing shaft diameter and for extending shaft length.

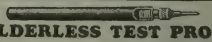
SIZE	KIND	STOCK NO. INSULATED	STOCK NO. BRASS
¼x¼"	Coupling	A2085	A2091
⅜x⅜"	Coupling	A2086	A2092
¼x⅜"	Coupling	A2087	A2093
¼ to ¼"	Ext.	A2088	A2094
⅜ to ¼"	Ext.	A2089	A2095
¼ to ⅜"	Ext.	A2090	A2096
Assorted Per 10 85c	Assorted Per 100 $8.25	NET EACH	**9c**

Brass and Fibre Shafting

For extensions or replacements. ¼" dia.
A2100. Brass. 6" long. EACH..... **10c**
A2101. Brass. 12" long. EACH..... **19c**
A2102. Fibre. 6" long. EACH..... **10c**
A2103. Fibre. 12" long. EACH..... **19c**

Split Bushing

For increasing shaft diameter from ¼" to ⅜". Brass. ⅜" I.D.—⅝" O.D.—7/16" long.
A2097. Per 10. 35c. EACH..... **5c**



SOLDERLESS TEST PRODS

Needle-point test prod with insulated handle. Completely solderless. Wire clamps tightly in prod. 5¼" long.
A2104. Red.
A2105. Black. EACH..... **15c**

BALANCING ATTACHMENT

Neutralize any set without removing chassis. May be screwed into 4 in 1 below. Only 2½" long. Ideal for working in close quarters. Offset ¼" hex. socket; steel neutralizing screwdriver.
A5526. YOUR PRICE..... **23c**

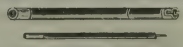
ALIGNING AND NEUTRALIZING TOOLS

ALIGNMENT TOOL KIT

Here is a tool kit that every Serviceman should have. Provides the correct tool for neutralizing or aligning any type of receiver. Contains: 1 pair test prods; 1 flexible tuning wand; 1 alligator wrench with screwdriver tip; 1—¼" socket tool with screwdriver; 1—6" insulated screwdriver; 1—9" balancing tool; 1—3-in-1 neutralizing tool; 1 trimmer for new metal tube sets.
A2122. YOUR PRICE **$2.75**

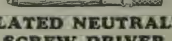
NEUTRALIZING and ALIGNING TOOL KIT

Has a tool for every type of receiver. 12 separate parts cover multiple functions. These units telescope into each other forming four separate tools for easy carrying in handy leatherette vest pocket case. Includes (1) alligator wrench; 6" insulated screwdriver with metal nib; 5/16" and ½" nut wrench; (2) ¼" square nut wrench; ¼" hex. side wrench; 2½" screwdriver with metal nib; (3) ¼" hex. slotted wrench; metal screwdriver; 5/16" hex. nut wrench; 5" screwdriver with metal nib; (4) 6" insulated screwdriver. Shipping weight, 1 lb.
A5532. YOUR PRICE **$2.35**



METAL NIB NEUTRALIZING TOOL

Two valuable tools. One is a 6"x⅜" tube, on each end of which are heavy brass nickel plated socket wrenches for 5/16" and ¼" hex. nuts. The other tool fits into the tube tool. Has a strong screwdriver blade at one end with the other end of special magnetic steel.
A5528. YOUR PRICE..... **69c**

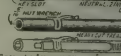


INSULATED NEUTRALIZING SCREW DRIVER

This handy tool has a grip-rite handle with pocket clip. Completely insulated. Ideal for neutralizing and alignment work. A useful tool for servicemen. Colorful insulold construction. 5½ inches long. Narrow 5/16 inch diameter enables this screw driver to be used in tight places.
A5503. YOUR PRICE..... **18c**

5-IN-1 NEUTRALIZING and ALIGNMENT TOOL

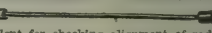
A handy fountain-pen style kit that will prove an invaluable tool. Consists of ¼" and 5/16" nut wrenches, miniature blade screwdriver for neutralizing jobs, and full size sturdy all-purpose screwdriver. Polished black bakelite with pocket clip. Shpg. wt., 4 oz.
A5527. YOUR PRICE.. **70c**



4-IN-1 SERVICE Alignment Tool

Combines in one fountain pen size tool 4 Serviceman's necessities—¼" and 5/16" nut wrenches, neutralizing screwdriver and key slot grip. Insulated handle with pocket clip.
A5523. Shpg. wt., 3 oz.
YOUR PRICE **29c**
A5524. Crosley attachment.
A5525. Majestic attachment.
EACH **10c**

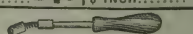
FLEXIBLE SHAFT TUNING WAND



Excellent for checking alignment of radio sets without disturbing the adjustment of the trimmers. Shaft is of flexible catgut; has brass cylinder at one end, fine iron core at the other.
A5534. YOUR PRICE **59c**

NEUTRALIZING WRENCH

Hex broaching runs entire length. End may be cut off when worn. Fibre rod. Fits ¼" nut.
A2616. 5½ INCH..... **14c** | **A2617.** 8 INCH..... **16c**



Flexible Shaft Socket Wrench

For those hard-to-get-at trimmer adjustments, especially those in RCA-Victor R32, R35, etc. Flexible shaft is fitted with case-hardened oval socket.
A5531. YOUR PRICE..... **$1.18**

SOLDERING IRONS *and* ACCESSORIES

COMPLETE WITH 2 SCREW-ON TIPS

KNIGHT SOLDERING IRON

55 WATT MODEL

A well-designed high quality KNIGHT 55 watt iron suitable for every service use. Has a dependable, quick-heating wire-wound element in a ceramic tube. Heats up quickly and stays hot. Two types of tips are supplied with the iron to handle all work from fine soldering to the tinning of chassis bases. Tips are ⅜ and 5/16 inch in diameter, 1½ inches long. The well-shaped handle remains cool even when iron is continuously used. Equipped with 5 ft. heater cord and rubber plug. Two tips included. This KNIGHT iron is an outstanding value at our price. Popular with hundreds of Radio Servicemen and builders.

7205. OUR SPECIAL PRICE 65c

100 WATT KNIGHT SOLDERING IRON

A high quality all-purpose iron. Has ⅞ inch diameter removable screw-on) copper tip. With black insulated handle and 6 foot heater cord. You get your money's worth in this fine iron.

7635. YOUR SPECIAL PRICE 97c

KESTER SOLDER

ACID
ROSIN
ALUMINUM

Three types of solder compounded of the highest grades of tin and lead available. Flux filling assures perfect permanent joints free from corrosion. Widely used by Servicemen. A Class "A" Solder, the finest that can be bought. The convenient one pound spool is an exceptional value.

ACID CORE

Of purest virgin metal with properly prepared acid flux core.

A6175. 1 Lb. Spool.. **71c**
A6176. Per Tin..... **15c**

ROSIN CORE

Kester Solder with pure plastic rosin core flux.

A6177. 1 Lb. Spool.. **71c**
A6178. Per Tin..... **15c**

ALUMINUM

A flux-filled Solder that will absolutely solder Aluminum.

A6179. 1 Pound Spool.... **$1.99**
A6180. Per Tin..... **17c**

KESTER SOLDERING PASTE

A new improved soldering paste. Does a clean, non-corrosive job of soldering. Excellent for radio work.

A6181. 10 FOR $1.05. PER TIN..... 12c

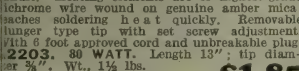
NEW DRAKE SOLDERING IRONS

Underwriters Tested and Approved. A sturdy dependable iron for all shop or Service requirements. With an "Easy-Grip" non-tiring wood handle. Heating elements are of highest-grade nichrome wire wound on genuine amber mica; reaches soldering heat quickly. Removable plunger type tip with set screw adjustment. With 6 foot approved cord and unbreakable plug.

2203. 80 WATT. Length 13"; tip diameter ⅜". Wt., 1½ lbs.
List, $3.15. **YOUR PRICE..... $1.85**

2204. 100 WATT. Length 12½"; tip diameter ⅜". Wt., 1½ lbs.
List, $3.75. **YOUR PRICE..... $2.20**

2205. 200 WATT. Length 14"; tip diameter ⅝". Wt., 2 lbs.
List, $7.50. **YOUR PRICE..... $3.95**



AMERICAN BEAUTY SOLDERING IRONS

2000. Type 3138. Adapted for production work on radio, ignition, telephone, etc. 100 Watt; 3 oz.; length 12⅞"; tip dia. ⅜". 6 foot cord. Wt., 1½ lbs.
List, $7.20. **YOUR PRICE..... $5.85**

2001. Type S-76. Light and compact. Heats quickly. Screw type removable tip. 50 Watt. 2 oz.; length 11⅝"; chisel point tip 7/16". With 6 foot cord.
List, $4.50. **YOUR PRICE..... $3.45**

Tips for American Beauty Irons

2002. Extra ⅜" tip for Type 3138 iron. **NET..... 39c**
2003. Extra tip for Type S-76 Soldering Iron. **NET..... 21c**

ICA QUALITY SOLDERING IRONS

A new, practical soldering iron, well-designed and properly built. Heating element is of the highest quality resistance wire, wound on heat resisting bobbin of machined and threaded Insulex. Will heat in three minutes. Handle remains cool even after the iron has been on for hours. Plunger type tip is easily removed for cleaning or replacement. A heavy set screw keeps tip firmly in place, and provides for adjustment of tip length. With cord and plug. Reasonably priced. Will give long reliable service. A real iron for men who want the best.

A5520. 60 WATT. Developed for radio work. Shpg. wt., 2 lbs.
List, $3.50. **YOUR PRICE..... $1.89**

A5521. 110 WATT. Heavy Duty type; has 7/16" plunger type tip of adjustable length. Shpg. wt., 2 lbs.
List, $5.00. **YOUR PRICE..... $2.65**

JACKSON SOLDERING IRONS

A high grade line of electric soldering irons. Elements are wound on amber mica insulation over steel core. Available with plunger tips or with removable screw tips. All types are supplied with 6 foot cords. Shpg. wt., 1½ lbs., each.

WITH PLUNGER TYPE TIP

A6000. 75 Watt. With 5/16" copper rod tip with set screw. Nickel-plated tube.
YOUR PRICE **$1.65**

A6001. 100 Watt. With ⅜" copper tip. 12½" long, with removable black handle. YOUR PRICE..... **$2.20**

A6002. 150 Watt. With 7/16" copper tip with set screw. 12" long.
YOUR PRICE **$3.45**

WITH REMOVABLE SCREW TIP

A6003. 75 Watt. With 7/16" removable copper tip. 12" long. Nickel-plated tube. YOUR PRICE..... **$1.15**

ROSIN CORE

GARDINER RADIO SOLDER

A new rosin-core solder especially developed for delicate electrical and radio work. Pure rosin-core flux assures freedom from corrosion. Makes dependable lasting joints. Can holds 3 to 4 oz. This reliable solder will give excellent results and save you money.

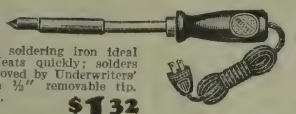
A6183. PER CAN **12c**
A6184. 1 LB. SPOOL..... **63c**

MAGIC STYLUS SOLDERING PENCIL

A new, small, easy-to-handle soldering tool, ideal for soldering small parts in hard-to-get-at corners. Heats quickly. Insulated handle with cork finger guard provides cool handling always. Tip is easily removed for cleaning or replacement. With 5 ft. cord. Underwriters' Approved.

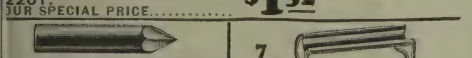
A6150. 110 VOLT A.C. OR D.C.
A6151. 6 VOLT D.C. (Storage Battery.)
NET EACH **72c**

"Hot Spot" 75 Watt Iron



An inexpensive, well-built soldering iron ideal for practically all jobs. Heats quickly; solders cleanly and effectively. Approved by Underwriters' Laboratories. Supplied with ½" removable tip, complete with cord and plug.

2201. OUR SPECIAL PRICE..... $1.32



SOLDERING IRON TIPS

High quality replacement plunger type copper tips in popular sizes. Replace your old tips with these sturdy new units and make your old soldering iron as good as new again.

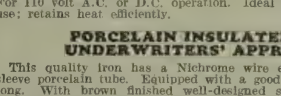
No.	Size	NET EA.
5997	5/16x2⅞	20c
5998	⅜x1½	
5999	½x3¼	30c

7 INCH

SOLDERING IRON HOLDER

A sturdy, well-built soldering iron holder measuring 7 inches long. Useful in the shop, lab., or on service calls. Prevents scarred or burned surfaces.

A2206. YOUR PRICE... 12c



MARVEL ELECTRIC SOLDERING IRON

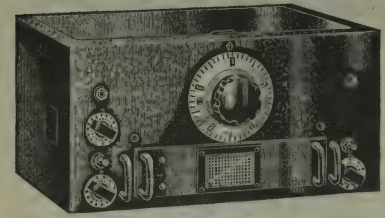
A neat, compact soldering iron of high quality construction. Wide acceptance and great volume production make our remarkable low price possible. This iron should be in every serviceman's kit. 10 inches long. For 110 volt A.C. or D.C. operation. Ideal for all radio work. Easy to use; retains heat efficiently.

PORCELAIN INSULATED ELEMENT UNDERWRITERS' APPROVED CORD

This quality iron has a Nichrome wire element, mounted in a twin sleeve porcelain tube. Equipped with a good quality copper tip, 2 inches long. With brown finished well-designed stay-cool handle and 3 foot Underwriters' approved flexible cord. A well-balanced unit. Suitable for general radio and light soldering work. A value that is unbeatable. Dealers: Buy these irons in quantities for fast turnover and larger profits. A real fast-moving soldering iron value.

A5199 DOZEN LOTS.... **$3.05** YOUR PRICE EACH..... **28c**

NATIONAL Short



NATIONAL HRO JUNIOR AMATEUR RECEIVER

A communication receiver with all the features of the HRO Senior except for tuning meter and crystal filter. Maximum gain and high signal-to-noise ratio attained with two tuned R.F. stages and two air-tuned I.F. stages. Accurately calibrated, ganged plug-in coils. Micrometer dial with 500 divisions assures ample bandspread (although not as great as the HRO Senior). The HRO Junior is supplied with coils tuning from 10 to 20 meters (2 amateur bands). Additional coils listed below. Housed in a black crystal steel cabinet, 8¾x16¾x10". Shpg. wt., 35 lbs. Our Time Payment Plan makes it easy to own an HRO Junior. Write for details.

A10065. For 2.5 volt A.C. operation. Supplied complete with RCA tubes (4—58, 3—57, 1—2B7, and 1—2A5), and one set of coils (10 to 20 meters). Less speaker and power supply.

A10066. For 6 volt battery operation. Supplied complete with RCA tubes (4—6D6, 3—6C6, 1—6B7, and 1—42) and one set of coils covering the Amateur 10 and 20 Meter bands. Less speaker and batteries.

List, $180.00.

YOUR PRICE EITHER MODEL..... **$108.00**

AB POWER PACK

A10046. Type 5897AB. For use with 2.5 volt model HRO Junior. Heavy-duty type for 110 V. 50/60 cycles A.C. Wt., 16 lbs. Less 80 tube. NET..... **$15.90**

HRO JUNIOR COILS

A9012. Set of coils covering 7 to 14.4 M.C. (2 Amateur bands, 40 and 20 meters.)
A9013. Set of coils covering 3.5 to 7.3 M.C. (2 Amateur bands, 80 and 40 meters.)
A9014. Set of coils covering 1.7 to 4 M.C. (2 Amateur bands, 160 and 80 meters.) YOUR PRICE PER SET..... **$9.90**

NATIONAL FB7A AND FBXA RECEIVERS

Two popular 7 tube communication type receivers for the Amateur and SW Fan. Ample sensitivity and selectivity. Features: 2 IF stages, air-tuned; full-vision dial with seven inch scale; front panel plug-in coils; complete shielding and filtering for signal stability; electron-coupled oscillators. Model FBXA has built-in crystal filter. Sets measure 11½x12x8". Shpg. wt., 29 lbs.

A10044. FB7A. Complete as described above, less crystal filter. Requires 2—58, 1—57, 1—56, 2—24A, 1—59 tubes. Supplied less tubes, coils, and power supply. See coils below.
NET..... **$41.70**

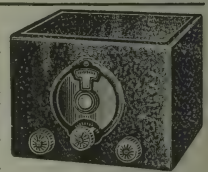
A10045. FBX-A CRYSTAL MODEL. With crystal filter for single signal reception. Less tubes, coils and power supply.
NET..... **$57.00**

A10046. HEAVY-DUTY POWER PACK type 5897AB for maximum performance. For 110 V. 50/60 cycles. Less 80 tube. Wt. 18 lbs. NET..... **$15.90**

A10047. POWER SUPPLY. Type 5887AB. For use with above sets for headphone operation only. 110 V. 50/60 cycles. Less 80 tube. Wt., 16 lbs. NET..... **$14.70**

NATIONAL SW-3 RECEIVERS

A favorite with Amateurs and SW Fans for years. Efficient TRF circuit, with single tuning control. Smooth, noiseless regeneration. Volume control calibrated in "R" units. Crinkle finish cabinet 9¾"x9"x7". Wt. 17 lbs.



A10053. AC-SW3. For A.C. operation. Uses 2—58 and 1—27 tubes. Less coils, tubes and power supply. Coils listed below.

A10054. 6DC-SW3. For 6 volt D.C. operation. Requires 2—36 and 1—37 tubes. Supplied less tubes, coils and batteries. Coils listed below.

A10055. 2DC-SW3. For 2 volt battery operation. Uses 2—32 and 1—30 tubes. Less tubes, coils and batteries. YOUR PRICE EACH..... **$21.00**

A10056. 5880 AB Power Supply. 115 volt 60 cycle. Requires 80 tube. List, $29.50. NET..... **$17.70**

A10057. 3580 "B" Power Supply. Has electrostatic shield and double section filter. Supplies 4 "B" voltages—22-45V, 45-90V, 90-135V and 180V. Requires 80 tube.
List, $22.50. NET..... **$13.50**

FB-7A COILS

General Coverage and Band-Spread Coils for FB7A and FBXA receivers. Forms are R39; windings are covered with protective sleeve, metal end and handle. With built-in air dielectric condensers. Both types of coils interchangeable.

BAND-SPREAD COILS

No.	Band Range	NET PER PAIR
A6929	10 meter B.S.	$7.20
A6930	20 meter B.S.	$6.00
A6931	40 meter B.S.	
A6932	80 meter B.S.	
A6933	160 meter B.S.	

GENERAL COVERAGE COILS

		NET EACH PAIR
A6934	34,000 to 18,000 Kc.	$6.00
A6935	19,500 to 11,400 Kc.	
A6936	11,700 to 7,000 Kc.	
A6937	7,300 to 4,000 Kc.	
A6938	4,200 to 2,400 Kc.	
A6939	2,500 to 1,500 Kc.	
A6940	1,500 to 900 Kc.	

SW-3 COILS

Low-loss coils for National SW3 receivers. Wound on R39 forms. Series "10" for use in original A.C. and D.C. SW3, A.C. SW5, A.C. SW45. Series "60" for present Model A.C. SW3 and A.C. SW58. Both General Coverage and Bandspread types are available.

General Coverage Coils

10 Series NO.	60 Series NO.	Meter Range	NET PER PAIR
A6835	A6843	9-15	$3.00
A6836	A6844	13.5-25	
A6837	A6845	23-41	
A6838	A6846	40-70	
A6839	A6847	65-115	
A6840	A6848	115-200	
A6841	A6849	200-360	$3.00
A6842	A6850	350-550	

BAND-SPREAD COILS

A6880	A6885	10	$3.00
A6881	A6886	20	
A6882	A6887	40	
A6883	A6888	80	
A6884	A6889	160	

STEEL CABINETS

For housing home-built receivers or special equipment. Used with such sets as National FB7, SW-3, SRR, PSK, HRO, and NC100. Undrilled panels and sub-bases. Black crinkle finish. Complete with sub-base and bottom cover.

No.	Type	Size	NET
A9692	C-SRR	7½x7 x 7½"	$2.10
A9693	C-FB7	11½x8 x12"	4.20
A9694	C-PSK	6 x8 x12"	3.60
A9695	C-SW3	9¾x7 x 9"	3.30
A10310	C-110	11 x7 x 7½"	2.70
A10311	C-HWR	13½x7 x 7½"	3.00
A10312	C-HRO	16¾x8¾x10"	5.10
A10313	C-NC100	17¼x8¾x11¼"	5.10

S-101 AUDIO COUPLER

For coupling output of screen grid detector to grid of audio tube. Consists of 700 henry plate coupling choke, .01 coupling condenser, and 250,000 ohm resistor in a case.

A6896. List, $8.00.
YOUR PRICE..... **$3.60**

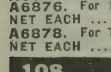
STAND-OFF INSULATORS

A6627. Fig. A. Small Isolantite insulators designed for extreme electrical efficiency. Make ideal forms for H.F. and U.H.F. chokes. Equipped with metal mounting feet. Type GS1. 1⅜" high, ½" diam.
NET..... **15c**

A6628. Fig. A. GS2. 2⅞" high, ½" diam. NET..... **21c**

A6629. Fig. B. A Steatite insulator for mounting parts on metal chassis bases. GS5 tapped 8-32 each end. GS6 and GS7 tapped 10-24 each end. GS5. 1¼" high.
NET..... **15c**

A6630. Fig. B. GS6. 2" high. NET..... **27c**
A6631. Fig. B. GS7. 3" high. NET..... **45c**
A6632. Fig. B. GS8. A small Steatite insulator suitable for use in Low Loss H.F. Circuits for coil mountings, etc. Base has 1⅛" mounting centers. NET..... **21c**



NATIONAL GRID GRIPS

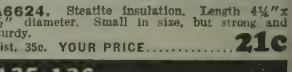
Unique construction assures perfect contact with grid cap, yet is easy to remove.

A6877. For Standard Glass Tubes.
A6876. For Metal Tubes.
NET EACH..... **3c**

A6878. For Transmitting Tubes.
NET EACH..... **6c**

NATIONAL AA-3 SPREADER

A6622. Steatite feeder spreaders 6⅛" long, ⅝" diameter. Extremely efficient; low loss. List, 30c. YOUR PRICE..... **18c**



AA-5 STRAIN INSULATOR

A6623. Aircraft type compression strain insulator. Very strong.
List, 30c. YOUR PRICE..... **18c**

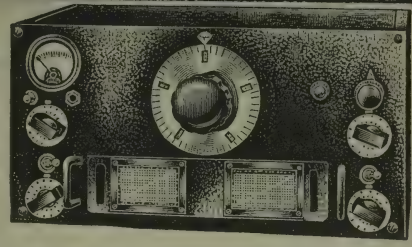
AA-6 ANTENNA INSULATOR

A6624. Steatite insulation. Length 4¼"x ½" diameter. Small in size, but strong and sturdy.
List, 35c. YOUR PRICE..... **21c**

FOR COMPLETE INDEX SEE PAGES 135-136

Wave EQUIPMENT

NATIONAL HRO "SENIOR" AMATEUR RECEIVER



A nine tube superhet that meets the most exacting requirements of high-frequency communication. Embodies such desirable features as: Two tuned R.F. stages; crystal filter with adjustable selectivity; calibrated ganged plug-in coils; single control tuning; signal strength meter calibrated in "S" units; variable pitch beat oscillator. Micrometer type dial with 20 to 1 worm drive has 500 divisions for absolute bandspread and accurate tuning. The performance of this receiver is amazing. Usable sensitivity and selectivity are extremely high with complete suppression of image frequencies. Complete descriptive literature available on request.

A10062. FOR 2.5 VOLT A.C. OPERATION. Complete with 4—58, 3—57, 1—2B7, and 1—2A5 R.C.A. tubes. With ganged plug-in coils covering 1.7 to 30 M.C. Less speaker and power supply.

A10063. FOR 6 VOLT BATTERY OPERATION. Complete with 4—6D6, 3—6C6, 1—6B7, and 1—42 R.C.A. tubes. With ganged plug-in coils covering 1.7 to 30 MC. Less speaker and batteries.

List, $299.50. **YOUR PRICE, EITHER MODEL.... $179.70**

The National HRO "Senior" Receiver may now be purchased on an attractive time-payment plan. Initial payment is low and the balance may be paid in either six or ten months. Complete details will be sent on request. Get your HRO "Senior" now and enjoy its marvelous performance while paying for it on our easy deferred payments.

EXTRA COILS

Plug-in coil assemblies for the National HRO.

A9015.	175- 400 K.C...	$16.50
A9016.	500-1000 K.C...	12.00
A9017.	900-2000 K.C...	12.00

AB POWER SUPPLY

A10046. Type 5897AB. Heavy-duty power pack for use with the HRO "Senior." For 110 V. 50/60 cycles. Requires 80 tube (not supplied). Wt., 16 lbs.
List, $26.50. NET..... **$15.90**

NATIONAL DIALS

TYPE "B" 4"

A compact dial with a smooth variable ratio drive. Dial scale is read through a window in the black bakelite case.

A6904. Scale 0-100-0, 180°. Rotates in either direction.
A6905. Scale 200-0, 360°, counter-clockwise.
NET EACH **$1.65**

A6906. Illuminator for dial, with bracket.
List, 50c. NET EACH..... **30c**

TYPE "BM" 3"

Smaller than the "B" dial; similar in appearance, but with fixed ratio vernier.

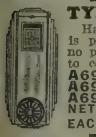
A6908. Scale 0-100-0, 180°, universal.
A6909. Scale 200-0, 360°, counter-clockwise. EACH..... **$1.50**

TYPE "N"

Precision dials, with machine-divided scales and verniers of solid German Silver. Dial is 4" in diameter with a smooth planetary mechanism; 5 to 1 ratio.

A6911. Scale 0-100, 180°, c.c.
A6912. Scale 100-0, 180°, clockwise.
A6913. Scale 150-0, 270°, clockwise.
A6914. Scale 200-0, 360°, counter-clockwise. EACH..... **$4.05**

TYPE "H" DRUM DIAL



Has positive dial cord drive. Scale is projected on ground glass screen; no parallax. Operates at right angles to condenser shaft.

A6920. Scale 0-100, 180°, c.c.
A6921. Scale 100-0, 180°, c.
A6922. Scale 150-0, 270°, c.
NET EACH **$3.30**

TYPE "A" 4" DIAL

An exceptionally smooth "Velvet Vernier" dial, entirely free from backlash. The vernier mechanism is contained within the bakelite knob. Ratio 5 to 1. 4" dia.; black bakelite.

A6900. Scale 0-100, 180°, c.c.
A6901. Scale 150-0, 270°, c.
YOUR PRICE EACH..... **$1.80**

TYPE HRO 1 5/8" DIAL

A6660. Neat etched silver dial as used on the HRO receivers. Marked 0-10 over 180° clockwise. 1 5/8" diam.; for 1/4" shaft. NET **45c**

TYPE "O" 3 1/2" DIAL

A6661. Attractive circular-grained German Silver dial 3 1/2" diam. Reads 0-100 over 180° C.C. Large fluted finger-grip knob for easy tuning. Fits all 1/4" shafts.
NET **90c**

NATIONAL HRO KNOB

A6924. Large professional tuning knob, 2 3/8" diam. For 1/4" shaft.
NET **51c**

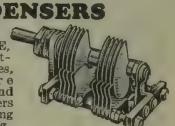
NATIONAL RECEIVING CONDENSERS

SE 270°

This well-known condenser has straight line frequency plates, 270° rotation. Steatite insulated. Plates and frame are aluminum; two bearing rotor with front bearing insulated. Rotor contact is through constant-impedance pigtail. 15 mmf. and 25 mmf. condensers have thick plates with rounded and polished edges. All other types have cut plates; edges are not polished.

STOCK No.	CAP. MMF.	NO. OF PLATES	AIR GAP	NET EACH
A 6810	15	6	.055"	$1.50
A 6811	25	9	.055"	1.65
A 6812	50	11	.026"	1.80
A 6813	75	15	.026"	1.95
A 6814	100	20	.026"	2.10
A 6815	150	29	.026"	2.25
A 6816	200	27	.018"	2.25
A 6817	250	32	.018"	2.40
A 6818	300	39	.018"	2.40
A 6819	335	43	.018"	2.55

ST 180°



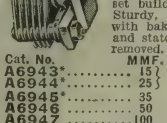
Similar to type SE, but with 180° Straight-Line-Wavelength plates, and somewhat more compact. 15, 25 and 50 mmf. condensers with .018" spacing have single bearing. Others have two bearings.

STOCK No.	CAP. MMF.	NO. OF PLATES	AIR GAP	NET EACH
A 6820	15	3	.018"	$ .84
A 6821	25	4	.018"	.90
A 6822	50	7	.018"	.96
A 6823	35	9	.026"	.90
A 6824	50	11	.026"	1.08
A 6825	75	15	.026"	1.20
A 6826	100	20	.026"	1.35
A 6827	140	28	.026"	1.50
A 6828	150	29	.026"	1.50
A 6829	200	27	.018"	1.65
A 6830	250	32	.018"	1.80
A 6831	300	39	.018"	1.95
A 6832	335	43	.018"	2.10

SPLIT STATOR MODELS

A 6833	50-50	11-11	.026"	$2.10
A 6834	100-100	14-14	.018"	2.70

EXPERIMENTERS TYPE CONDENSERS

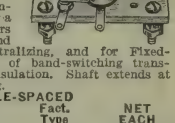


A superior low-priced midget condenser for SW set builders and experimenters. Sturdy, all-brass construction with bakelite insulation. Rotor and stator plates may be easily removed. Single hole mounting.

Cat. No.	MMF.	NET, EACH
A6943*.....	15	
A6944*.....	25	51c
A6945*.....	35	60c
A6946	50	54c
A6947	100	60c
A6948	140	75c

* Double spaced; others single.

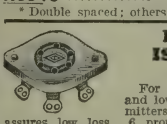
ULTRA-MIDGET TYPE UM CONDENSERS



Compact midget condensers. For Ultra H.F. use in receivers and transmitters, and for padding or neutralizing, and for Fixed-Tuned exciter stages of band-switching transmitters. Isolantite insulation. Shaft extends at rear for easy ganging.

Stock No.	Cap. Mmf.	Fact. Type	NET EACH
	SINGLE-SPACED		
A6800	15	UM- 15	$0.75
A6801	35	UM- 35	.90
A6802	50	UM- 50	.96
A6803	75	UM- 75	1.02
A6804	100	UM-100	1.14
	DOUBLE-SPACED		
A6807	25	UMA-25	1.11
	BALANCED STATOR SINGLE-SPACED		
A6808	25	UMB-25	1.11

LOW-LOSS ISOLANTITE SOCKETS



For use in HF receivers and low power stages of transmitters. Isolantite insulation assures low loss. 6 prong Special Socket for National Coils is square; others as illustrated.

No.	Prongs	
A6867	4	List, 60c. NET EACH.
A6868	5	
A6869	6	
A6870	7	
A6897	8	Octal for Metal Tubes..... **36c**
A6871	6	(For National Coils).....45c

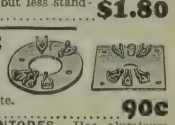
50 WATT SOCKETS

A high grade moderately priced socket; has glazed ceramic insulation and metal shell. Binding post terminals.

A6655. XM-50.
List, $1.75. NET... **$1.05**

A6898. XC-50. ALL-STEATITE. Low-loss; provides safety from arc-over. Contacts are only metal in entire assembly.
List, $3.50. NET..... **$2.10**

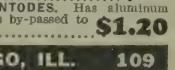
POWER PENTODE SOCKET



Large wafer type Isolantite socket for the RK28 and RCA803 power pentodes. Rigid three point mounting. Has rugged side-wipe contacts. Equipped with standoff insulators.

A6899. NET EA. **$2.16**
A6875. As above, but less standoff insulators. NET..... **$1.80**

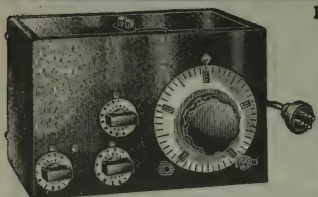
ACORN TUBE SOCKETS



A6643. FOR TRIODES. Five contact clips on Isolantite.
NET **90c**

A6644. FOR PENTODES. Has aluminum base with all-contacts by-passed to ground. NET **$1.20**

NATIONAL Short



A10061. Type 5886 power supply for 110 receiver. For 115 volts, 60 cycles. Requires 80 tube. List, $26.50.
NET **$17.70**

NEW NATIONAL "ONE-TEN" ULTRA HIGH FREQUENCY RADIO RECEIVER

An improved super-regenerative ultra-high-frequency receiver. Designed to meet present day needs for stable operation over the entire range of from 1 to 11 meters. Accurately engineered for maximum sensitivity, high signal-to-noise ratio, and extremely simple operation. Uses 1—954 tuned R.F. stage, 1—955 self-quenching detector, 1—6C5 and 1—6F6 audio stages. Panel controls include micrometer dial, Regeneration, Volume and R. F. trimmer controls, stand-by switch and phone jack. Complete with six sets of plug-in coils, less tubes, speaker and power supply **$51.00**

A10060. NET.....

PRECISION GANGED CONDENSER WITH MICROMETER DIAL

A precision condenser assembly for H.F. circuits. Ruggedly built, with four bearing shaft. Insulated rotors have brush type contacts. Stator insulated with Steatite. Has 20 to 1 worm drive with micrometer dial. S.L.F. plates.

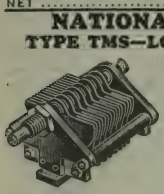
175 MMF. PER SEC. No.	Sections	225 MMF. PER SEC. No.	NET
A6890	2	A6893	$12.00
A6891	3	A6894	14.40
A6892	4	A6895	16.50

A6942. Complete Drive Unit. Consists of enclosed worm drive and micrometer dial described above. NET..... **$9.00**

Above condensers are also available in single section types, in capacities of 150, 200, 350 and 500 mmf., single spaced.
EACH NET **$9.00**

NATIONAL TRANSMITTING CONDENSERS

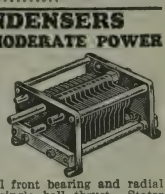
TYPE TMS—LOW POWER



Precision type condensers, rigidly constructed, for use in low-power stages of transmitters. Low C condensers are rated at 2000 Volt Peak; others are 1000 Volt Peak. Conical front bearings; single ball thrust, radial rear bearing. Insulation is Steatite-Isolantite.

For Oscillators, Buffers, Doublers, Etc. No.	Mmf.	Plates	NET
A6635	100	10	$1.50
A6636	150	14	1.65
A6637	250	23	1.80
A6682	300	27	2.16
A6638	50–50	5–5	2.25
A6639	100–100	9–9	2.70
For Low C, Type 210 Amplifiers			
A6640	35	8	1.80
A6641	50	11	1.95

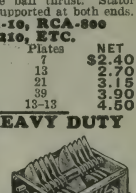
TYPE TMC—MODERATE POWER



For use in power stages of transmitters where the peak voltage does not exceed 3000 volts. Extremely rigid frame; Steatite-Isolantite insulation. Aluminum plates have buffed edges; air-gap is .077". Have conical front bearing and radial rear bearing with single ball thrust. Stator of split-stator model is supported at both ends.

For RK-18, RK-19, RCA-800 830, 203A, 210, ETC. No.	Mmf.	Plates	NET
A6645	50	7	$2.40
A6646	100	13	2.70
A6647	150	21	3.15
A6683	300	39	3.90
A6648	100–100	13–13	4.50

TYPE TMA—HEAVY DUTY



A larger model of the TMC condensers listed above. Isolantite insulated. All plates are of aluminum with rounded, buffed edges. Peak voltage of air-gaps: .077, 2000 V.; .171, 6000 V.; .265, 9000 V.; .359, 12000 V.

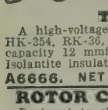
No.	Mmf.	Airgap	NET
A6667	300	.077	$ 7.20
A6668	200–200	.077	9.00
A6669	50	.171	3.90
A6670	100	.171	6.00
A6671	150	.171	7.20
A6672	230	.171	9.60
A6673	50–50	.171	6.60
A6674	100–100	.171	10.50
A6675	100	.265	8.10
A6676	150	.265	10.20
A6677	60–60	.265	11.10
A6678	50	.359	4.80
A6679	100	.359	8.70
A6680	40–40	.359	8.10

NEUTRALIZING CONDENSERS

TYPE TCN

A heavy-duty neutralizing condenser with a peak voltage rating of 6000 volts. Maximum capacity 25 mmf. For use with 203A, 852, 204A and like tubes.
A6874. NET. **$2.40**

TYPE NC-800



For use with the RCA 800 or other tubes which require small neutralizing capacity. Isolantite insulation. Screwdriver adjustment with lock nut. Max. capacity 10 mmf.
A6665. NET.... **$1.80**

TYPE NC-150

A high-voltage condenser for neutralizing the HK-254, RK-36, 300B, 852 and like tubes. Max. capacity 12 mmf. Adjustable from .2 to 1.6". Isolantite insulated.
A6666. NET **$3.90**

ROTOR CLAMPING DEVICE

Designed to clamp the rotor shaft of any National transmitting condenser. Easy to mount. Holds rotor firmly in place.
A6941. List, 85c. NET..... **51c**

FLEXIBLE SHAFT COUPLING

Flexible shaft with ¼" hubs for driving offset shafts up to 90 degrees without backlash. TX-12 has isolantite insulated hubs.
A6620. TX-12. NET **75c**
A6621. TX-11. Plain hubs, not insulated. NET **36c**

AIR-TUNED PADDERS

Extremely compact, sturdy condensers for use in high-frequency receivers, or in fixed-tune stages of low-power transmitters. Aluminum shield measures 1¼" diameter and 1¼" to 1½" high.

No.	Mmf.	NET
A6872	75	$1.35
A6873	100	1.50

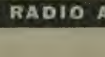
VARI-GAP CRYSTAL HOLDER

Permits tuning over a range of 6 KC when used with special 3.5 MC crystal (13 KC on 7 MC, 24 KC on 14 MC). R-39 holder for socket mounting supplied with six inch flexible shaft, 0-10 dial, knob, and panel bushing. This holder cannot be used with X or Y cut crystals.
A6685. Holder only..... **$5.70**
A6686. With crystal **$19.50**

CRYSTAL HOLDER

Mounts crystal in vertical position, allowing it to vibrate freely. Permits rapid change of crystals. Molded R-39 body, with metal shield. Less crystal.
A6864. Resonator Type CHR.
A6865. Transmitting Type CHT. NET EACH..... **$1.50**

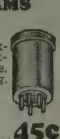
TYPE XS-6 HF BUSHING



A small Steatite shoulder-type flat bushing. Measures ⅝" diam., ⅜" thick with ⅛" hole.
A6633. NET EACH..... **9c**

NATIONAL COIL FORMS

RECEIVER FORMS



Low-loss R-39 forms which are extremely popular with Amateurs and Experimenters. Easy to drill and groove. Measure 1½" diameter, 2¼" long. Finger-grip rim.
A6852. 4 Prong.
A6853. 5 Prong.
A6854. 6 Prong.
List, $0.75. NET EACH..... **45c**

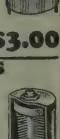
TRANSMITTER FORMS

Ceramic forms for winding low-loss transmitter inductances. Grooved and drilled.
A6862. XR10A. 20 or 40 meter. NET..... **90c**
A6863. XR12A. 80 or 160 meter. NET..... **$1.50**

AIR-TUNED I. F. TRANSFORMERS

Efficient IF transformers with air dielectric condensers. Steatite insulation; aluminum plates. Coils are Litz wound. Adjustments are on top of shield can. Oscillators are tuned by a knob.
A6925. 450-550 KC IF.
A6926. 450-550 KC Beat Osc.
A6927. 175 KC IF.
A6928. 175 KC Beat Osc.
List, $5.00.
NET EACH **$3.00**

DIODE TRANSFORMERS

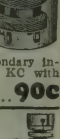


Designed for use in the new noise silencing circuits, or in detector and A.V.C. circuits for coupling to diode detector tube. Air-tuned primary; untuned, close-coupled secondary for push-pull output. Isolantite insulated; moisture-proofed coils. Enclosed in aluminum shield.
A6918. 175 K.C.
A6919. 450-550 K.C.
YOUR PRICE EACH.. **$2.10**

LOW FREQUENCY OSCILLATOR COIL

For use in super-regenerative receivers as interruption-frequency oscillator. Consists of two separate inductances, closely coupled, mounted in an aluminum shield. Mounts easily by means of two spade lugs. Secondary inductance is 6.25 mh. Tunes to 100 KC with .00041 mfd. condenser.
A6857. List, $1.50. NET..... **90c**

XT8 COIL FORM



Low-loss Steatite form for R.F. chokes, precision resistors, etc. Four sections; wire slot between sections and to terminals. Mounting hardware supplied.
A6866. NET EACH..... **30c**

Wave EQUIPMENT

NATIONAL R-100 R.F. CHOKE

Ideal for high frequency circuits. Extensively used in receivers and low-power stages of transmitters. Has continuous 4 section universal winding on isolantite form. Inductance 2½ MH; distributed capacity only 1 mmf. Current rating 125 MA; D.C. resistance 50 ohms. Pigtail connections.

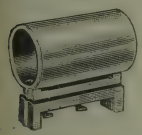
A6879. List, 60c. YOUR PRICE **36c**

TRANSMITTING TYPE CHOKES

Universal chokes with honeycomb-type windings in five sections. Rated at 600 MA continuously. Inductance, 4 MH, 10 ohms D.C. resistance. R152 is for the 160 meter band, and R154 for the 40 meter band.

A6855. R152.
A6856. R154.
List, $2.25. NET EACH **$1.35**

A6858. R154U. For 20, 40 and 80 meter bands. Five section honeycomb type coil on Isolantite core, with solder lugs. Rated at 600 M.A. continuous, 1 mh. inductance, 6 ohms D.C. resistance.
NET **$1.05**



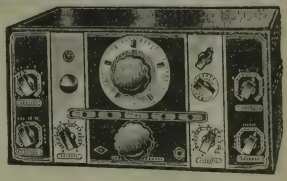
BUFFER COIL FORM AND SOCKET

A new low-loss coil form assembly for use in medium and low-power transmitter stages. Isolantite coil form is 1¾" dia., 3½" long; drilled for wire leads. R39 coil plug with five prongs is easily attached to coil form by two screws. Molded R39 socket equipped with five rugged side-wipe contacts. Ideal for oscillator and buffer stages.

No.	Description	NET
A6650.	Complete Buffer Form Assembly	$1.50
A6651.	Coil Form only	.60
A6652.	Coil Plug only	.45
A6653.	Coil Socket only	.45

NATIONAL NC-100 ALL-WAVE RECEIVER

30 MC TO 540 KC



An amazingly efficient 12 tube superhet for the discriminating Amateur or Short-Wave Listener. Capable of extremely high performance over its entire frequency range of from 540 to 30,000 KC. Has many unusual features of design, including an ingenious coil-changing mechanism. Incorporates the efficiency of individual plug-in coils with a smooth, rapid band-change switch. The micrometer dial and worm-drive tuning mechanism provides an accuracy of tuning that amazes the operator. Panel controls are grouped for easy operation and include: Range Selector; A. V. C.-Manual Volume-Beat Oscillator control switch; Combined A.C. on-off, and Stand-by switch; R.F. and Audio Gain Controls; Tone Control, etc. Crystal filter model also has variable filter and phasing control. The NC-100 has a tuned preselector stage which operates on all bands. Power supply is built in and is hum-free.

ELECTRIC EYE FOR ACCURATE TUNING

Tubes used are: 4—6K7, 3—6J7, 1—6C5, 2—6F6, 1—6E5 and 1—80. The calibrated electron-eye tube on front panel accurately indicates strength of incoming signals. Antenna input is arranged for either doublet or single-wire antenna. 10" electro-dynamic speaker is mounted in black crinkle-finish metal cabinet; receives field excitation from power supply built into receiver. The NC-100 is housed in a black crinkle-finished steel cabinet 17½"x11½"x9". Shpg. wt., 65 lbs. For 110 volt, 50/60 cycle operation.

A10048. MODEL NC-100 COMPLETE with tubes and built-in power supply, and 10 inch dynamic speaker, in metal cabinet.
NET **$125.10**

A10049. MODEL NC-100X. As above but with new type National crystal filter built in. Filter is equipped with both variable selectivity and phasing controls.
NET **$147.60**

A10315. BATTERY MODEL NC-100. Same as the NC-100 described above but without built-in power supply. Uses only 10 tubes: 4—6K7, 3—6J7, 1—6C5, 1—6F6 and 1—6E5. Requires 6 volt storage battery for filament supply and "B" batteries for plate supply. Supplied complete with matched set of tubes, and 10" dynamic speaker in metal cabinet.
NET **$121.60**

NEW NATIONAL NC-101X RECEIVER

A special Amateur Model of the now famous NC-100 using the same efficient 12 tube circuit. Tuning ranges cover only the 160, 80, 40, 20 and 10 meter Amateur Bands. Calibration curves supplied are accurate to .25% of the operating frequency. The NC-101X is supplied complete with tubes, built-in power supply, crystal filter, and 10" dynamic speaker mounted in metal table cabinet.
A10316. YOUR PRICE **$134.10**

Write for details of Our Time Payment Plan.

NATIONAL CATHODE RAY OSCILLOSCOPE

Now every Amateur Radio Station can have an oscilloscope at a moderate price. The new National Model CRM is designed to provide a graphic picture of actual operating conditions in transmitter circuits. Uses the new 913 Cathode Ray tube with one inch screen. Has a built-in power supply and 60 cycle sweep circuit; also has provisions for the use of an external sweep if desired. The CRM requires only two tubes: 1—913 and 1—6X5 rectifier. Easily operated, has Focus, Brilliancy and Sweep Amplitude controls on front panel. Fills FCC requirements for checking modulation of Amateur 'phones; patterns are easily interpreted. Completely self-contained in sturdy metal case, 4⅛"x6⅛"x8". Small enough to be easily handled, yet capable of doing a real job in any "Ham" station. For 110 volt, 50/60 cycle A.C. operation.
A10317. Less tubes. List, $18.50. NET.... **$11.10**
A10318. RCA tube kit for CRM Oscilloscope. NET..$6.41

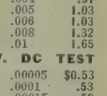
FIXED TRANSMITTING CONDENSERS

SANGAMO TYPE E MICA CONDENSERS

An exceptionally heavy-duty type condenser for use in all high-voltage circuits. Insulation is finest selected mica; complete assembly hermetically sealed in glazed porcelain case. Voltage ratings are conservative; capacity remains constant under all load conditions. These units are recommended for use in tank circuits, for antenna coupling, as plate or grid blocking units, or in any circuit carrying heavy current. Size 4¼" wide, 2⅛" deep, 3²⁹⁄₃₂" high. Mounting centers 3¼".

Stock No.	Cap. Mfd.	Max. D.C. Volts	NET
A7972	.00005	12500	$2.20
A7973	.0001	12500	
A7974	.00025	12500	
A7985	.0005	12500	2.50
A7986	.001	12500	2.94
A7987	.0015	12500	3.23
A7988	.002	12500	3.82
A7989	.003	10000	4.70
A7990	.004	10000	5.29
A7991	.005	10000	5.59
A7992	.001	7000	2.50
A7993	.0015	7000	2.79
A7994	.002	7000	3.09
A7995	.003	7000	3.53
A7996	.004	7000	4.41
A7997	.005	7000	4.12
A7998	.01	7000	5.59

SANGAMO MICA CONDENSERS



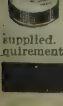
Accepted by Amateurs everywhere for R.F., by-pass, and coupling condensers in transmitter circuits. Accurate within 10%. Finest ruby mica dielectric; containers of molded bakelite.

1000 V. DC No.	Mfd.	TEST NET	2500 V. DC No.	Mfd.	TEST NET
A7650	.00005	$0.24	A7672	.00005	$0.41
A7651	.0001	.24	A7673	.0001	.41
A7652	.00015	.24	A7674	.0002	.41
A7657	.0002	.24	A7675	.00025	.41
A7653	.00025	.24	A7676	.0005	.41
A7656	.0005	.24	A7677	.001	.53
A7658	.001	.29	A7678	.002	.78
A7659	.0015	.29	A7679	.004	.91
A7660	.002	.29	A7680	.005	1.03
A7661	.003	.35	A7681	.006	1.03
A7662	.004	.35	A7682	.008	1.32
A7663	.005	.41	A7683	.01	1.65
A7664	.006	.50	**5000 V. DC**		**TEST**
A7665	.008	.59	A7975	.00005	$0.53
A7667	.01	.68	A7976	.0001	.53
A7668	.015	.73	A7977	.00015	.59
A7666	.02	1.09	A7978	.00025	.62
A7669	.025	1.35	A7979	.0005	.73
A7655	.03	1.47	A7980	.001	.88
A7671	.05	2.26	A7981	.002	1.32
			A7982	.003	1.62
			A7983	.005	1.94
			A7984	.01	2.41

A7670. Resistor clips.
Net, per pair..... 6c

We can also supply 2500 and 5000 Volt Sangamo condensers with "dead" terminals on one side, suitable for panel mounting at no additional cost. Specify when ordering.

AEROVOX OIL-IMPREGNATED CONDENSERS



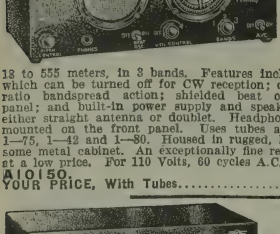
Designed for dependability. These transmitting type filter condensers are built of the finest materials available. Dielectric is 100% pure linen paper impregnated with oil. Section is surrounded by protective oil bath in hermetically sealed round metal can. High-tension pillar insulators are used for terminals, insuring adequate insulation at high operating voltage. Mounting rings supplied. A size for every transmitter filter requirement at a moderate price.

No.	Mfd.	Size	NET
		1000 VOLT	
A1258	1	2 x5¼	$1.59
A1259	2	2 x5⅛	1.97
A1260	4	2⅛x5⅛	2.85
		1500 VOLT	
A1261	1	2 x5⅛	1.68
A1262	2	2⅛x5⅛	2.29
		2000 VOLT	
A1263	1	2 x5⅛	2.09
A1264	2	2⅛x5⅛	2.79

Mounting ring furnished with each of the above units.

Short Wave RECEIVERS

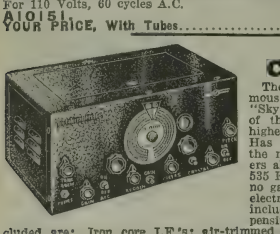
LATEST HALLICRAFTERS SHORT WAVE RECEIVERS



LOW PRICED SKY BUDDY

Here is the ideal receiver for the amateur or short wave fan who has always wanted a professional type receiver, at an inexpensive price. Has all the features of the larger sets, and is capable of real professional performance. New circuit makes five tubes do the work of eight. Tunes from 13 to 555 meters, in 3 bands. Features include iron core I.F.; A.V.C., which can be turned off for CW reception; calibrated dial, with 36 to 1 ratio bandspread action; shielded beat oscillator, controllable from panel; and built-in power supply and speaker. Arranged for use with either straight antenna or doublet. Headphone jack and all controls are mounted on the front panel. Uses tubes as follows: 1—2A7, 1—6F7, 1—75, 1—42 and 1—80. Housed in rugged, handsome metal cabinet. An exceptionally fine receiver at a low price. For 110 Volts, 60 cycles A.C.

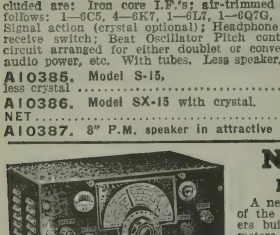
A10150. YOUR PRICE, With Tubes..... $29.50



SKY-CHIEF

A new communication type receiver of superior design and construction. An efficient superheterodyne circuit makes use of seven tubes to give ten tube performance. Among the features of this remarkable set are: Band switching, to tune from 17 M.C. to 540 KC., covering amateur, short wave broadcast, police, and regular broadcast bands; variable beat oscillator controllable from front panel; 6G5 signal strength indicator; iron core I.F. stage; A.V.C.; R.F. and audio gain controls; mechanical bandspread; built-in speaker and power supply, and stand-by switch. Headphone jack, as well as all other controls are mounted on front panel. Uses 1—78, 1—6A7, 1—6F7, 1—75, 1—42, 1—6G5, and 1—80 tubes. In attractive, rugged metal cabinet. For 110 Volts, 60 cycles A.C.

A10151 YOUR PRICE, With Tubes..... $44.50



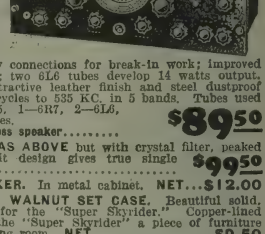
SKY CHALLENGER

The latest addition to the Famous "Hallicrafter" line. The "Sky Challenger" embodies many of the salient features of the higher-priced "Super Skyrider." Has been engineered to satisfy the most critical Amateur. Covers all frequencies from 40,000 to 535 K.C. (7.5 to 560 meters) with no gaps. Uses smooth continuous electrical band spread, a feature included only in the more expensive receivers. Features included are: Iron core I.F.'s; air-trimmed R. F. coils; nine tubes as follows: 1—6C5, 4—6K7, 1—6L7, 1—6Q7G, 1—6F6G, and 1—80. Auxiliary Signal action (crystal optional); Headphone jack; A.V.C. switch; Send-receive switch; Beat Oscillator Pitch control; Tone control; Antenna circuit arranged for either doublet or conventional antenna; 4 watts of audio power, etc. With tubes. Less speaker.

A10385. Model S-15, less crystal $69.50

A10386. Model SX-15 with crystal. NET $79.50

A10387. 8" P.M. speaker in attractive metal case..... $9.50



SUPER SKY-RIDER

An 11 tube amateur-professional receiver incorporating all of the latest developments. Among the many features of the new Sky-Rider are: Calibrated Duo-Micro-Vernier bandspread tuning; 2 iron core I.F. stages; 6G5 field strength indicator; 2 air trimmed R.F.'s; 338 degree main tuning dial; keying relay connections for break-in work; improved 10 meter performance; A.V.C.; two 6L6 tubes develop 14 watts output. Rack mounting panel with attractive leather finish and steel dustproof cabinet. Covers from 40 megacycles to 535 KC. in 5 bands. Tubes used are: 4—6K7, 1—6L7, 1—6C5, 1—6H7, 2—6L6, 1—6G5 and 1—5Z3. With tubes.

A10154. YOUR PRICE, less speaker..... $89.50

A10155. MODEL SX-11, AS ABOVE but with crystal filter, peaked at factory. New filter circuit design gives true single signal action. **NET..... $99.50**

A10388. 12" P.M. SPEAKER. In metal cabinet. **NET...$12.00**

A10389. SPECIAL SOLID WALNUT SET CASE. Beautiful solid, hand-rubbed, walnut cabinet for the "Super Skyrider." Copper-lined for perfect shielding. Makes the "Super Skyrider" a piece of furniture that will do justice to any living room. **NET..... $9.50**

A10390. WALNUT SPEAKER CABINET. Walnut speaker cabinet to match above receiver cabinet. Takes 12" speaker. **NET.....$5.50**

SKY-RIDER COMMERCIAL MODEL S12

A10156. An 11 tube commercial receiver ideal for ship and aircraft use. Tunes 29.25 meters to 3000 meters, covering the 40, 80 and 160 meter amateur bands, as well as many broadcast and commercial wave lengths. I.F. frequency used is 1600 KC. With tubes as above. **NET..... $99.50**

A10157. MODEL SX-12. As above but with improved crystal filter; factory-peaked, for true single signal operation. **NET $114.50**

A10388. 12" P.M. SPEAKER. In metal cabinet. **NET....$12.00**

ULTRA SKY-RIDER

Designed for use on the 3.76 to 58 meter bands. Covers the 5, 10, 20 and 40 meter bands. Features include: Iron core I.F.'s; R.F. and Audio gain controls; "Send-Receive" switch, etc. Uses 10 tubes as follows: 2—6K7, 2—6L7, 1—6J7, 1—6C5, 1—6R7, 1—6Q7, 1—6F6 and 1—5Z4. In handsome black metal cabinet.

A10152. Model S-10. Less speaker. With tubes. NET $99.50

A10153. MODEL SX-10. As above but with crystal filter and panel controlled crystal phasing condenser. **NET..... $114.50**

A10388. 12" P.M. Speaker in metal cabinet. NET.....$12.00

PEAK PRE-SELECTOR AND PRE-AMPLIFIER

A new improved model of the famous Peak Preselector. Will add increased efficiency to any Amateur or SW receiver by increased sensitivity to weak signals. Permits complete control of R.F. sensitivity, rejects images, and greatly increases signal-to-noise-ratio. Tunes from 9 to 200 meters in four bands. Uses 2—58 tubes. 7¼"x9¾"x10".

A10183. Less tubes. YOUR PRICE $19.80

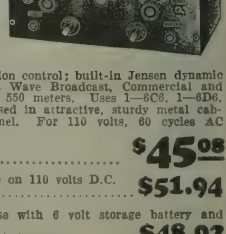
NEW SARGENT RECEIVERS

MODEL 21-AA

A new "Super" by Sargent. One of the finest communication receivers built today. Tunes 5 to 550 meters in 5 bands; 9.5 to 16, 16 to 33, 33 to 70, 70 to 200, 200 to 550 meters. Amateurs and commercial operators will be pleased with the new and outstanding features incorporated in this receiver. Extremely selective; easy to handle; has a new regenerative R.F. stage which is easy to manipulate and non-critical. Rugged, durable, vibration-proof construction; panel will fit standard relay rack. Has large calibrated dial; regenerative input; iron core I.F.'s; Band spread; C.W. Oscillator, Panel beat-frequency control; Separate R.F. gain control; Manual volume or Amplified A.V.C.; heavy-welded steel cabinet, etc. Not only goes down to 10 meters but "brings them in" when it gets there. Uses 12 tubes: 4—6K7, 2—6J7, 1—6L7, 1—6C5, 1—6F6, 1—6E5 and 1—5Z3. Complete with tubes and speaker in metal cabinet.

A10392. MODEL 21AA. 110 V. 60 cycle AC. NET..... $122.50

A10393. MODEL 21AF. For operation from 6 V. battery and 135 to 180 volts "B" batteries. With tubes and speaker. **NET..... $125.44**



MODEL 11-AA

Standard all-wave communication receiver for the Amateur or Short Wave fan. Uses five highly efficient tubes in a modern stable T.R.F. circuit. No plug-in coils are used; bands are selected by switching. Has built-in power supply; break-in switch and headphone jack on panel; precisely calibrated main tuning dial; smooth, silent regeneration control; built-in Jensen dynamic speaker. Covers all Amateur, Short Wave Broadcast, Commercial and regular Broadcast bands from 9.5 to 550 meters. Uses 1—6C6, 1—6D6, 1—76, 1—42 and 1—80 tubes. Housed in attractive, sturdy metal cabinet, finished in dark crackle enamel. For 110 volts, 60 cycles AC operation. With tubes.

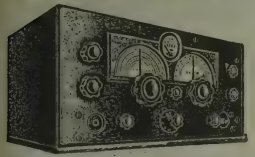
A10163. Model 11-AA. NET $45.08

A10394. Model 11-AD. For use on 110 volts D.C. **NET..... $51.94**

A10395. Model 11-AF. For use with 6 volt storage battery and 135 to 180 volts "B" batteries. **NET..... $48.02**

Short-Wave RECEIVERS·TRANSCEIVERS

THE RME MODEL 69 SINGLE SIGNAL SUPERHET



A precision-built receiver for the Amateur and Short-Wave Listener. Improved circuit develops exceptional efficiency across entire frequency range of receiver. Has two 5 inch illuminated dials; one calibrated in megacycles for easy accurate tuning, and one calibrated for bandspread. Finger-tip tuning is provided by planetary-vernier dial drive. Features: carrier level meter calibrated in DB and R units; modulation monitor built-in; tuned preselector stage; three-position crystal filter; coil assembly permanently shielded; electron-coupled oscillators, etc. Band switch provides rapid selection of any frequency band from 550 to 32,000 K.C. High-gain preselector stage eliminates image signals; increases selectivity and sensitivity to weak signals. Each RME-69 is individually hand made. All major parts, I.F. coils, etc., are laboratory-built and subjected to rigid tests. Workmanship is of the highest quality throughout. Tubes used are: 5-6D6, 1-6C6, 1-6J7, 1-42 and 1-80. Every RME-69 is completely laboratory-built and tested. Tubes included with each set are those used for final laboratory tests, which assures you that the set you receive is perfectly aligned and adjusted for maximum performance. Illustrated with Noise Silencer which is extra. See listing and price below.

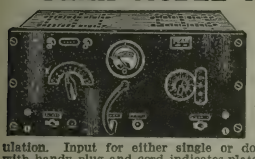
A10175. Complete with speaker in cabinet; with tubes. YOUR PRICE..... **$151.20**

A10176. Complete with tubes, less speaker. YOUR PRICE **$134.40**

The RME-69 Receivers listed above are available with built-in LS-1 Noise Silencer and tubes at an additional price of $11.40 net. Specify "With Built-in Noise Silencer" when ordering.

WRITE FOR DETAILS OF OUR TIME PAYMENT PLAN

PEAK MODEL X-4 10 WATT 56-60 MC PHONE TRANSMITTER

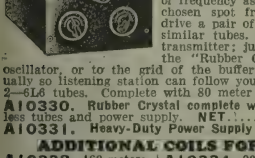


Rack mounting type with beautiful black wrinkle finish on panel and protective steel cabinet. Uses 1-6A6 as a unity coupled oscillator, Carrier power 10 watts. Speech amplifier uses 1-76, 1-6A6 driver, and 1-6A6 Class "B" modulator, capable of 100% modulation. Input for either single or double button carbon mike. Meter with handy plug and cord indicates plate current of oscillator or modulator. Panel contains: Gain control, stand-by switch, mike current switch, frequency adjustment control handle, plate current meter, and pilot light. Panel size 8¾x19"; cabinet size 8¾" high, 17" long, 7" deep. Does not include power supply, tubes, microphone or antenna.

A10180. Less tubes. NET..... **$29.70**

A10181. X3P POWER SUPPLY. For use with the X4 transmitter above. Supplies 300 volts at 200 M.A.-D.C., 6.3 volts at 3 amps. Uses 1—83 tube. Rack mounting panel with cabinet. For 110 V. 60 cycle A.C. Size 8¾"x19". Less tube. NET..... **$23.40**

NEW IPS RUBBER CRYSTAL



Do you let the heavy QRM "lick" your transmissions? You can make every QSO 100% with this new remote-control exciter unit; slide out from under interfering signals; put your own signals on the exact frequency of that DX station you want to hook; move around in uncrowded portions of the band—all as easy as tuning your receiver. The IPS Rubber Crystal can be placed on the operating table and link-coupled to your buffer stage. Bandspread tuning permits shift of frequency as great as 50 KC each side of any chosen spot frequency. Output is sufficient to drive a pair of RK-20s, 802s, 10s, T55s, 35Ts or similar tubes. Easily attached to your present transmitter; just remove crystal and link-couple the "Rubber Crystal" to the plate coil of the oscillator, or to the grid of the buffer stage. QSY can be made gradually so listening station can follow you into a point of least QRM. Uses 2—6L6 tubes. Complete with 80 meter coils.

A10330. Rubber Crystal complete with 80 meter coils, less tubes and power supply. NET..... **$28.50**

A10331. Heavy-Duty Power Supply (less 83 tube). NET...$15.90

ADDITIONAL COILS FOR RUBBER CRYSTAL

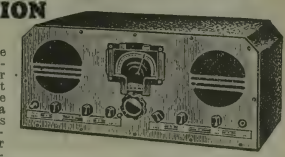
A10332. 160 meters. | **A10334.** 20 meters. } NET
A10333. 40 meters. | **A10335.** 10 meters. } EACH SET. **$2.00**

TRIPLETT MODULATION MONITOR

An absolute necessity in every Amateur Phone Station. Provides visual indication of carrier shift. Accurately measures percentage of modulation. More efficient than antenna meter calculations, aural modulation checks, and loop-and-light measurements. Accurately calibrated at factory; uses type 76 tube which can be replaced without affecting calibration. By means of easily adjusted inductive coupling this unit may be used with phone rigs of any power rating. Tip-tilt dial meter can be read from any angle. Size, 7⅞"x6⅝"x4⅝". Wt., 11 lbs. With tube. For 110 V. 60 cycle A.C.

A9328. List, $37.25.
YOUR PRICE **$24.33**

NEW RCA ACR-155 AMATEUR COMMUNICATION RECEIVER



A new up-to-the-minute communications receiver. Designed not only to fill your receiver needs, but also to fit the "budget" of the average Amateur, or SWL. Here is a nine tube super with features that make it a welcome addition to any "Ham Shack" or "Listening Post." All controls grouped on front panel make operation easy and untiring. Has 100-1 tuning ratio; Calibrated band-spread for positive logging; RF and Audio gain controls; AVC "on-off" switch; Standby switch; Range selector; Beat oscillator on-off and pitch controls; Tone control; and many other features. Inserting the 'phones in front panel jack mutes the speaker.

TUNES 520 TO 22,000 KC

Three band, continuous tuning range from 520 to 22,000 KC for world-wide reception of Broadcasts. Amateur bands clearly defined with ample bandspread for all Amateur communication work. Tuned R.F. stage on all bands for high signal-to-noise and high signal-to-image ratio. Interfering stations operating at frequencies near the 460 KC IF frequency are eliminated by Rejection Filter in the antenna circuit. Tuning dial shows calibrated scale for only the range in actual use. The ACR-155 comes complete with tubes, built-in power supply, built-in 6" dynamic speaker, and complete instructions. Tubes used are: 2—6K7, 2—6J7, 1—6L7, 1—6H6, 1—6F5, 1—6F6, and 1—5W4. Ventilated metal cabinet finished in two-tone wrinkle gray finish measures 24⅜"x12⅜"x10⅞". Shpg. wt., 59 lbs. For 110 Volt 50/60 cycles.

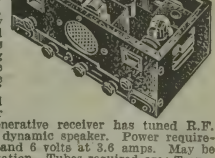
A10399. Complete with tubes, and built-in power supply and speaker.
YOUR PRICE **$74.50**

RCA ACR-175 RECEIVER

A new RCA Receiver that will do credit to any Amateur Station. Incorporates every desirable feature of design and construction. Tunes 5 to 600 meters continuous. Has new crystal filter, "Magic Eye" tuning indicator, Iron Core IF's, 11 new tubes, 2 IF stages, built-in power supply and high-gain preselector. Signal-to-noise ratio is extremely high. New improved A.V.C. and increased band-spread make operation of the RCA-175 a real pleasure. Has separate electro-dynamic speaker. New type velvet drive tuning control is absolutely free of backlash. Built in a handsome, rugged metal cabinet. Power transformer operates on 110 volts, 25 to 60 cycles.

A10171. With Tubes, Crystal and Speaker. NET **$119.50**

NEW RTL 56-60 MC DUPLEX TRANSMITTER-RECEIVER



Type TR6A6. A complete transmitter and receiver that permits Duplex operation in the Amateur 5 meter band. Receiver and transmitter each use newest, high efficiency circuits; individually shielded. The operator may talk and listen without throwing a switch as is required by transceivers, thus enabling duplex or break-in operation. Entire unit housed in a single sturdy steel case measuring 15" long, 7½" deep and 7½" high. Transmitter uses unity-coupled 6A6, with Class "B" modulation; carrier power 10 watts. Four tube super-regenerative receiver has tuned R.F. stage and pentode output with built-in dynamic speaker. Power requirements are 250 to 300 volts at 175 MA, and 6 volts at 3.6 amps. May be used for portable-mobile or permanent station. Tubes required are: Transmitter, 2—5A6, 1—6E6; Receiver, 1—78, 2—76, 1—42. Less tubes, mike, power-supply and antenna. 16½ lbs.

A10190. Less tubes. YOUR PRICE..... **$39.75**

A10191. 110 VOLT A.C. POWER SUPPLY. For use with TR6A6 described above. Complete with cables and plugs. Provides 300 volts D.C. at 175 MA, and 6.3 volts at 5 amps.; also 2.5 volts at 14 amps. Requires 1—5Z3 rectifier tube. Less tube. NET. **$25.00**

A7560. Universal Single Button Handi-Mike with 6 Ft. Cord. NET **$5.88**

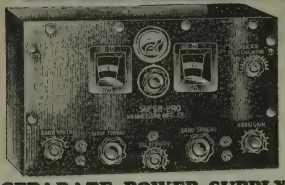
RTL "THE COMPACT" 56-60 MC Portable Transmitter-Receiver

A portable unit that is "at home" anywhere you may take it. Permits Duplex or Break-in QSO's without switches. Transmitter employs 1—30 as input amplifier, 1—19 as Class B Modulator, and 1—19 as push-pull oscillator. Carrier, 2 watts, 8 watts peak. Non-radiating receiver uses 1—34 or 1—1A4 TRF stage, 1—30 super-regenerative detector and the 2 watt audio system of the transmitter. Both the transmitter and receiver operate from the same antenna. Entire unit housed in 12½"x15"x15" crackle finished steel case with leather carrying handle. Batteries fit in lower compartment. Requires 3 portable type 45 volt "B" batteries, 2 dry cells, and 1—4½ volt "C" battery. Weighs only 25 lbs. with all batteries. Weight less batteries 12½ lbs.

A10192. The Compact, Battery-operated Portable Transmitter-Receiver. Less tubes and accessories..... **$26.50**

A10194. TELESCOPING FLEX-STEEL ANTENNA. Reinforced. For use with the Compact described above. Has special nickel-plated base as illustrated. Adjustable from 3½ to 9 ft. NET... **$2.40**

Hammarlund Precision PRODUCTS



SEPARATE POWER SUPPLY

Power supply is external and equipped with long connecting cable. Eliminates annoying hum and A.C. modulation of signals. Power supply cabinet finished to match receiver proper. Size 13"x7½"x8½". Has separate rectifier for grid-bias; supplies excitation for field of dynamic speaker. For operation from 110 volts 60 cycles.

A10050. Hammarlund Super Pro complete with 8" speaker, power supply and tubes. Shpg. wt., 90 lbs.
List, $405.00. NET **$238.14**

NEW "100" SERIES "SUPER PRO"

FINEST PROFESSIONAL TYPE COMMUNICATIONS RECEIVER

- Two T.R.F. Stages on All Bands.
- Noiseless Band Switching.
- Visual Tuning Meter.
- Four Air-Tuned I.F. Transformers.
- Calibrated Band-Width Control.
- Bandspread on Four H.F. Bands.
- Continuously Variable Selectivity.
- Calibrated Beat Oscillator for C.W.
- Electrostatically Shielded Input.
- C.W.-Modulation Switch.

5 BANDS—15 TO 560 METERS

"Performance Plus" is the keynote of the latest and finest Hammarlund receiver. Sixteen tubes; eight metal and eight glass type tubes are incorporated in the most amazing communications receiver ever produced. Designed specifically for the exacting requirements of Government, Commercial, Airport, Police, Marine and similar services, this new Super Pro is so simple to operate that even the novice can easily tune in stations from any point in the world. Five wave bands provide continuous coverage from 540 KC to 20 MC. (15 to 560 meters.)

EXCLUSIVE FEATURES

Many exclusive features combine to produce maximum efficiency. 12 to 1 ratio main tuning dial calibrated in KC and MC; calibrated beat oscillator pitch control; calibrated control of band width from 3 to 16 KC; send-receive switch; isolantite mounted coils; A.V.C. and manual controls; separate control for I.F. sensitivity; noiseless band switching that shows only the scale in use on the main tuning dial; extreme bandspread on all H.F. bands; and a host of other features. Receiver unit is housed in crystalline finished steel cabinet 18½"x14¾"x 10½"

A10051. Super Pro with built-in variable selectivity crystal filter, speaker, power supply and tubes.
List, $435.00. NET **$255.78**

The Super Pro is also available with rack mounting panel and dust cover; or with power supply for other voltages. Write for prices.

Buy your Super Pro now on our convenient deferred payment plan. Complete schedule of time payments will be sent on request.

HAMMARLUND TYPE "T" I.F. TRANSFORMERS

Specially designed for experimental and replacement purposes. Double-tuned, with mica compression type condensers on isolantite base. Adjustable from top of can. Coils are litz-wound and wax-impregnated. Aluminum shield can is 2⅛" dia., 3⅛" high. Base mounting by threaded lugs on 2" centers.

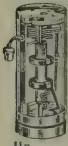
Untapped	Frequency	C.T.		
A5350	175	A5352	List, $1.45.	85c
A5351	465	A5353	NET EACH..	
A5355	465	Beat Oscillator.		85c
List, $1.45.		YOUR PRICE.....		

TYPE "ST" MIDGETS

As above but in compact can, 1⅞/16" square, by 2⅝" high. Mtg. centers, 1⅝/16".

Untapped	Frequency	C.T.		
A5356	175	A5358	List, $1.45.	
A5357	465	A5359	NET Each,	85c
A5441	262			

"AIR-TUNED" I.F. TRANSFORMERS



For use where absolute stability is necessary. Air-tuned, with Litz-wound coils. Provide gain in excess of 200 per stage with unequalled selectivity. Designed particularly for Screen Grid type tubes. Beat Oscillator has tuning lever to vary beat note. Can, 2⅜/32" dia.; 5" high.

Untapped	Frequency	C.T.	
A5360	175	A5363	NET EACH
A5361	465	A5364	
A5366	465	Beat Oscillator.	**$2.65**

VARIABLE COUPLING I.F. TRANSFORMERS

Type VT. A great improvement in IF transformer design. Permits continuously variable selectivity from sharp peak to flat top required for fidelity. Consists of new triple pie-wound coils and air dielectric condensers, with variable coupling. Coupling may be fixed, or varied from front panel. Measure 2x2x5".

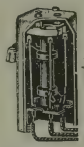
A5378. 465 K.C.
A5379. 175 K.C.
List, $5.50. NET EACH..... **$3.23**

A5385. VTC. Variable coupling mechanism for panel control of up to 4 transformers. NET..... **$1.47**

CONDENSER COUPLING

Bakelized canvas insulation; brass bushings. Flexible; for ganging condensers, etc., without need of exact shaft alignment. For ¼" shafts. 1½" diameter.
A5323. List, 60c.
YOUR PRICE **35c**

NEW IRON CORE I.F. TRANSFORMERS



A new iron core I.F. transformer which provides maximum gain per stage coupled with extremely sharp selectivity. Core is of high permeability magnesium alloy; rust-proof and non-corrosive. Isolantite mounted trimmers. Size 1¾" square, 4⅛" high. Mounting centers 1⅝". 465 KC.

		NET EACH
A5444.	Single stage input.	
A5445.	Single stage output.	
A5446.	Two stage input.	
A5447.	Two stage interstage.	**$1.76**
A5448.	Two stage output.	

HAMMARLUND TRIMMING AND PADDING CONDENSERS

EQUALIZERS

For balancing, neutralizing and trimming purposes. Mica dielectric; bakelite base. 1¼"x 1⅞/16". Adjusting screw in center.

A5374. 3-35 MMF. List, 30c.
YOUR PRICE **18c**
A5375. 25-80 MMF.
List, 40c. YOUR PRICE..... **24c**

"MEX" EQUALIZER

Extremely small low-loss condenser. Screw adjustment. Isolantite base, with mica dielectric and phosphor bronze plates. 3 to 30 mmf. ⅝"x¾".
A5376. List, 30c. NET..... **18c**

TYPE IBT

A high grade mica padding condenser on a 1¾/16 inch diameter Isolantite base. Maintains original capacity setting, resisting moisture, temperature and vibration. With 4-36 mounting studs on 1⁵⁄₁₆" centers.

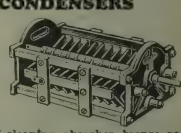
No.	Mmf.	List	NET
A5420	10-70	50c	29c
A5421	70-140	60c	35c
A5422	140-220	70c	41c

AIR PADDING CONDENSERS

High quality air-dielectric condensers; compact in size. Particularly adaptable to S.W. and Ultra S.W. work. Isolantite base. Air gap .015". Will fit 1¾" dia. cans. Screw-driver adjustment.

No.	Mmf.	List	NET
A5324	25	$1.30	$0.76
A5325	50	1.50	.88
A5326	75	1.70	1.00
A5327	100	1.90	1.12
A5442	140	2.25	1.32

HAMMARLUND TRANSMITTING CONDENSERS



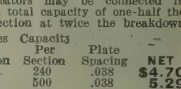
Isolantite insulation throughout for highest efficiency. Cast, heavy-weight end plates provide rigid, vibration-less assembly and thorough shielding of condenser.

Non-inductive self-cleaning phosphor bronze rotor contact. ¼" shaft extends 1⅛" from panel mounting bushing. Width 4¹¹⁄₁₆", height 3⁸⁄₁₆".

No.	Plates	Cap. Mmf.	Air Gap	Voltage Rating	NET
A5283	7	30	.192	6500	$2.94
A5284	11	50	.192	6500	3.82
A5285	21	100	.192	6500	5.59
A5286	31	150	.192	6500	7.35
A5287	47	225	.192	6500	9.41
A5288	11	100	.080	3000	3.23
A5289	17	150	.080	3000	3.82
A5290	23	225	.080	3000	4.70
A5291	43	385	.100	3500	7.06
A5292	47	450	.080	3000	7.06
A5293*	23	225	.080	2000	3.53
A5294*	19	350	.038	1000	2.94
A5295*	27	500	.038	1000	3.23

* Plain edges. Others are rounded.

SPLIT-STATOR CONDENSERS

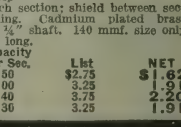


Heavy-duty construction. May be mounted directly on metal panels with rotor at ground potential reducing hand capacity; permits use of balanced tank circuits for permanent neutralization. Stators may be connected in series, providing a total capacity of one-half the capacity of one section at twice the breakdown voltage.

No.	Plates Per Section	Capacity Per Section	Plate Spacing	NET
A5260*	13	240	.038	$4.70
A5261*	27	500	.038	5.29
A5262*	11	100	.080	5.29
A5263*	23	225	.080	6.47
A5264	11	50	.192	7.06
A5265	21	100	.192	10.58

* Plain edges. Others are rounded.

H.F. DUAL CONDENSERS

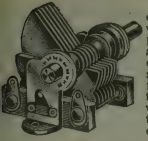


A new dual condenser for use in low-powered transmitters, etc. Has Isolantite base, new split rear bearing; individual wiping contact for each section; shield between sections for grounding. Cadmium plated brass plates soldered to ¼" shaft. 140 mmf. size only 1½" high x 3⅜" long.

No.	Capacity Per Sec.	List	NET
A5437	50	$2.75	$1.62
A5438	100	3.25	1.91
A5439	140	3.75	2.20
A5440	30	3.25	1.91

Hammarlund Precision PRODUCTS

MIDGET CONDENSERS



High quality midget condensers. Insulated with Isolantite. Brass plates .0225" thick with an .0245" air gap are securely fastened to the ¼" shaft. Wide bearings at front and rear provide extra good contact. Clockwise rotation. Shaft extends beyond rear to facilitate ganging.

No.	Plates	Min. Mmf.	Max. Mmf.	List	NET
A5300*	3	4.5	20	$1.40	$0.82
A5301*	5	5	35	1.50	.88
A5302*	7	6	50	1.60	.94
A5298	7	6	50	1.60	.94
A5303*	11	7	80	2.00	1.18
A5304	11	6.5	80	2.00	1.18
A5305*	14	7.5	100	2.25	1.32
A5306	14	7	100	2.25	1.32
A5307	19	8	140	2.50	1.47
A5299*	19	9	140	2.50	1.47
A5308	27	10	200	2.75	1.62
A5309	34	11	260	3.00	1.76
A5310	43	13	320	3.50	2.06

*Semi-circular plates. All others are Midline.

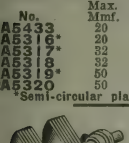
DOUBLE-SPACED MIDGETS

Have special bearings and Isolantite insulation. Exceptionally efficient at ultra-high frequencies. Air-gap, .0715".

No.	Max. Mmf.	Min. Mmf.	List	NET
A5433	20	6.5	$2.00	$1.18
A5316*	20	7	2.00	1.18
A5317*	32	7	2.25	1.32
A5318	32	7.5	2.25	1.32
A5319*	50	9.5	2.75	1.62
A5320	50	9	2.75	1.62

*Semi-circular plates. All other are Midline.

DUAL MIDGET CONDENSERS



Rigid, high quality two-gang midget condensers, designed especially to provide added efficiency at ultra-high frequencies. Plates are .0225" brass, with .0245" air-gap. Overall length behind panel, 3¼".

A5434. 50 MMF. PER SECTION. Semi-circular Plates. Minimum capacity 5.5 mmf. **A5435. 50 MMF. PER SECTION.** Midline Plates. Min. cap. 5 mmf. List, $3.00. NET EACH..... **$1.76**

A5311. 100 MMF. PER SECTION. Midline Plates. Minimum capacity 6 mmf. **A5346. 100 MMF. PER SECTION.** Semi-circular Plates. Min. cap. 6.5 mmf. List, $3.50. NET EACH..... **$2.06**

A5312. 140 MMF. PER SECTION. Midline Plates. Minimum capacity 7 mmf. **A5347. 140 MMF. PER SECTION.** Semi-circular Plates. Min. cap. 8 mmf. List, $4.00. NET EACH..... **$2.35**

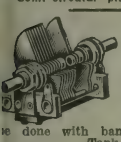
Double-Spaced Dual Midgets

Similar to above dual condensers, but have air-gap of .0715" between adjacent rotor and stator plates. Ideal for compact 5 meter transmitters using 45's or 10's in push-pull.

No.	Max. Mmf.	Min. Mmf.	List	NET
A5321	31	6	$3.50	$2.06
A5322*	31	6.5	3.50	2.06

*Semi-circular plates. Other is Midline.

BANDSPREAD MIDGETS



For use as bandspread tuning condensers in short wave receivers and for amateur frequency meters. "Tank" section may be locked, and all tuning may be done with bandspread section.

Stock No.	Tank Cap., Mmf.	Tuning Cap., Mmf.	List Price	NET PRICE
A5313	100	18	$3.00	$1.76
A5314	100	50	3.25	1.91

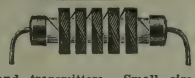
ALUMINUM TUBE SHIELDS

Complete isolation is afforded by this shield for the new high-gain RF pentodes. Drawn-in neck completes shielding between grid and plate of tube. Special design affords maximum cooling. 4⅝" high, 1⅞" diameter. 1 27/32" mounting centers.

A5398. NET..... **24c**

HAMMARLUND CHOKES

MIDGET CHOKES CH-X



For receivers and transmitters. Small size adapts these units to many uses where space is at a premium. Universal-wound. Thoroughly impregnated. Center core is of isolantite. May be mounted by its own leads in any position. D.C. resistance, 35 ohms. Rated at 2.1 MH, 125 MA. Size, 1½"x½".

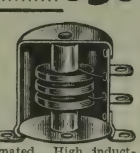
A5344. List, 60c. NET..... **35c**

CH-6

Low-loss 8 mh. R.F. choke. Ideal for all short-wave receivers and transmitters. Section-wound on compact isolantite spool. Moisture-proof windings are protected by lacquer and cellophane. Equipped with flexible leads and reversible end brackets for universal mounting. Especially suited for grid-choke use in multi stage transmitters. D.C. resistance, 70 ohms. Current rating 125 MA. Size, 1⅜"x⅞".

A5343. List, $1.10. NET..... **65c**

SHIELDED CHOKE CH-10-S



A new shielded choke for use in high gain circuits. Completely enclosed in aluminum shell; has minimum external field. Eliminates circuit instability through stray coupling. Universal-wound; thoroughly impregnated. High inductance type with very low distributed capacity. Diameter, 1⅝". Has removable mounting legs. Inductance, 10 mh. D.C. resistance, 65 ohms. 100 MA. capacity.

A5381. List $1.00. YOUR PRICE..... **59c**

X'MITTING CHOKE CH-500

A heavy-duty choke. For use in high power transmitters employing parallel feed. Equally effective on any amateur band. Universal-wound on Isolantite core. Has removable mounting brackets. Inductance 2½ mh; D.C. resistance, 8 ohms. 500 MA. continuous rating. Size, 2½"x1 5/16".

A5345. List, $1.75. NET..... **$1.03**

NEW HAMMARLUND ISOLANTITE SOCKETS

STANDARD SOCKET

Low-loss isolantite sockets ideal for all high frequency requirements. Have long leakage paths with positive rust-proof side-gripping contacts. Have guide groove for rapid insertion. Glazed top and sides. For sub-panel or base mounting. Standard 1 27/32" mounting centers.

		List, 60c. NET, EACH
A5339.	4 prong.	
A5340.	5 prong.	
A5341.	6 prong.	
A5342.	7 prong (Medium).	**35c**
A5348.	7 prong (Small).	
A5337.	8 prong (Octal).....	44c

ACORN TUBE SOCKET

Designed for the new RCA 955, 956 and 954 Acorn type tubes which are extremely popular in 1 to 10 meter receivers. Low-loss. Glazed isolantite base. High surface resistivity. Silver-plated bronze spring clips are double-grip type and cannot loosen with use. 1⅞" in diameter with two mounting holes.

A5338. List, $1.50. YOUR PRICE..... **88c**

HAMMARLUND "STAR" MIDGET CONDENSERS

A popular low priced midget for set builders, experimenters and laboratories. Sizes for short wave tuning, regeneration, antenna coupling, verniers, etc. Single hole mount. ¼" shaft. Size, 1⅝"x1⅜" high and up to 1½" deep behind panel, depending on capacity.

No.	Type	Mmf.	List	NET
A5328	SM- 15	15	$0.85	49c
A5329	SM- 25	25	.85	
A5330	SM- 50	50	.90	53c
A5331	SM-100	100	1.00	59c
A5332	SM-140	140	1.25	73c

"STAR" DOUBLE-SPACED CONDENSERS

Similar to standard "STAR" condensers listed above, but with greater air-gap between adjacent rotor and stator plates, allowing use in low-power transmitter circuits.

A5333. Max. capacity 35 mmf. List, $1.00. NET..... **59c**

A5335. Max. capacity 50 mmf. List, $1.25. NET..... **73c**

HAMMARLUND "SWK" S.W. PLUG-IN COILS

Efficient, well-designed S.W. coils. Wound on low-loss XP-53 forms. High frequency coil secondaries have heavy silver-plated wire. Others have heavy enameled copper wire. For use with 140 mmf. condenser.

4 PRONG COILS: 17-270 METERS. Kit of 4, two-winding coils.

A5367. List, $3.00. NET..... **$1.76**

6 PRONG COILS: 17-270 METERS. Kit of 4, three-winding coils.

A5368. List, $3.75. NET..... **$2.20**

INDIVIDUAL "SWK" COILS

4 prong coils have two windings; 6 prong have three windings. For 140 mmf. condenser.

Range	4 Prong	6 Prong
10-20 Meters	A5399	A5389
17-41 Meters	A5390	A5392
33-75 Meters	A5391	A5393
NET EACH	59c	73c
66-150 Meters	A5394	A5396
135-270 Meters	A5395	A5397
NET EACH	44c	59c

Broadcast Coils: 250-560 Meters

A5369. 4 PRONG, two-winding coil. List, $1.25. NET..... **73c**

A5370. 6 PRONG, three-winding coil. List, $1.50. NET..... **88c**

NEW SWF LOW-LOSS COIL FORMS

Rugged low-loss forms; of XP-53. Ribbed for air-spacing, with flange grips. Have shelf inside for mounting padding condenser. 1½" dia. x 2⅞" long. Natural amber color.

A5371. 4 PRONG } A5372. 5 PRONG } Ea. **21c**

A5373. 6 PRONG..... **24c**

HAMMARLUND ULTRA SHORT WAVE COIL FORMS

Isolantite coil forms designed for maximum efficiency at ultra-high frequencies. Forms are 1⅜" in diameter, 2" long exclusive of prongs, and have holes drilled to permit almost any type of experimental winding. Made only in five prong type. Ideal for coils tuning the 28 and 56 megacycle bands.

A5382. List, 75c. YOUR PRICE..... **44c**

Amateur TRANSMITTERS

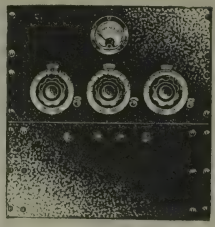
THE LATEST

★ BUILD YOUR OWN ★
ALL-STAR TRANSMITTER

You can assemble these fine transmitter units in a few hours' time with only a screwdriver, pliers, and soldering iron. Every detail of layout and wiring is worked out for you and the finished job not only looks but performs just like the finest commercial transmitters.

UNITS and KITS

40 WATT RF UNIT



The ideal transmitter for the beginner, or for the old timer who wants to modernize his station. Consists of a 47 crystal oscillator and an 802 buffer driving the push-pull 802 amplifier. Provides four band operation with only two crystals. Band changing is by plug-in coils. Blocked grid keying of the amplifier stage effectively prevents key clicks. Complete kit contains all necessary parts, drilled and finished panel and chassis base, coil forms, condensers, etc. Less tubes and crystal. Requires 1—47 and 3—802 tubes. Instruction book furnished.

A8510. 40 WATT KIT. YOUR PRICE **$33.05**

LOW VOLTAGE POWER SUPPLY KIT

Complete kit of parts for the low voltage power supply; for use with the 40 watt R.F. unit. Has all necessary parts. Requires one type 83 tube. For 110 V. 50/60 cycles.

A8511. Less tube. NET **$29.65**

SPEECH AMPLIFIER AND POWER SUPPLY

A8512. May be used as a modulator for the 40 watt RF unit or as driver amplifier for the 200 watt modulator. Supplied with either T7994 modulation transformer or T8054 driver transformer. Has input for carbon or crystal mike. Uses 2—6C6, 2—76, 2—42, 1—83, and 1—82 tubes. Kit complete with T7994 transformer. Less tubes and mike. NET **$35.85**

A8513. Same as above but with T8054 driver transformer. Adequately excites the class "B" 838 tubes in the 200 watt modulator to full output. NET **$35.85**

500 WATT R. F. AMPLIFIER

Any amateur with a low power transmitter can, by use of the All-Star 500 watt RF unit, increase power economically. Designed for use with the 40 watt RF unit described at top, or any RF unit furnishing 15 to 25 watts for excitation. Uses two 838 tubes in push-pull. Panel and chassis base are drilled and finished. Even the beginning "Ham" can build and operate the completed job. Kit contains panel, chassis base, hardware, condensers, chokes, insulators, meter; everything except the tubes and plate coils. No need to spend hours deciding how to build a high power amplifier for your present rig or for the 40 watt All-Star transmitter.

A8514. All required parts, less tubes and plate coils. NET **$27.30**

HIGH VOLTAGE POWER SUPPLY

For use with 500 watt R.F. amplifier above. Includes panel, chassis, transformers, chokes, condensers, insulators, etc. Requires 2—866 tubes. Complete; ready to assemble and wire.

A8515. Less tubes. NET **$52.45**

200 WATT MODULATOR

Will 100% modulate the 500 watt R.F. amplifier, or your present 500 watt CW rig. Requires the speech amplifier at top (A8513) or similar unit as a driver amplifier. Uses 2—838 tubes in Class "B." Kit contains panel, chassis, transformers, sockets, etc. No power supply included. Obtains "B" voltage from High Voltage Power Supply.

A8516. Less tubes. NET **$26.75**

A9938. 38½ INCH RACK. Standard 19" relay rack; has ample room for the 40 watt RF unit, low voltage power supply, and the speech amplifier-modulator units. Shipped knock-down. Weight, 26 lbs. NET **$8.70**

A9939. 73½ INCH RACK. For rack mounting of the All-Star units for complete 500 watt CW, 400 watt phone rig. Shipped knocked-down. Wt., 40 lbs. NET **$10.70**

Johnson Inductors For Above Transmitter

Especially designed, high efficiency plug-in inductors. Durably built.

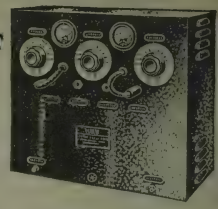
No.	Type No.	Meters	NET
A9664	636	20	$3.00
A9665	634	40	3.23
A9666	632	80	3.67
A9667	630	160	4.88

ALL-STAR INSTRUCTION BOOK

16 complete pages of assembly data for the All-Star Transmitter. Clear concise instructions, photographic layouts, and detailed wiring diagrams make construction easy.

A11002. YOUR PRICE **15c**

NEW UTAH 80 WATT CW TRANSMITTER KIT



Here is the answer to your new transmitter problem. For the beginner it's an ideal starting rig, a base on which to build to a complete 400 watt station. For the advanced Amateur it's a peach of an auxiliary unit to allow operation on several bands without disturbing the "big rig." It's new and up-to-the-minute; uses a 6L6 as crystal oscillator and a parallel 6L6 RF amplifier. Will deliver full 80 watts to the antenna. Attractive steel cabinet 13"x16"x9½" is finished in black crystal. Circuit design produces maximum "sock" without excessive power requirements. Easy to assemble; all drilling and punching already done for you; in fact the kit comes to you with many of the parts mounted in place. All parts carefully selected; power supply units have ratings that will insure maximum performance even under continuous operation. Don't delay building your new rig—start your Utah Add-A-Unit transmitter with the 80 watt unit now. Kit comes to you complete and ready for assembly.

A10336. Complete Kit, less only tubes, crystal and meters. NET **$49.75**

And that isn't all—more Utah kits are coming to enable you to build the complete 400 watt CW-Phone rig. ALLIED will have them as fast as they are released. Write for literature and details.

SECTIONAL RELAY RACKS

An ingeniously designed rack that fits every transmitter or other equipment requirement. Start with the base unit and add a section at a time as you build. Side sections, front panels, and back panels are available in standard rack sizes (see the complete listings below). Sturdy, rigid assembly; louvres provide ample ventilation. Made of heavy steel finished in black crinkle enamel. Basic section can be placed on your desk or table; then as sections are added, rack may be placed on floor.

A5670. Base. Heavy cast steel. Size 20x15¾x2½. Bolt holes provided for floor mounting. Black crinkle finish. NET **$3.23**

A5671. Top Cover. Inverted tray type; baked black crinkle finish. Size 20x11½x1¼". NET **$1.91**

SIDE SECTIONS

No.	Size	Set of Two Sides
A5672	3½x14½"	$1.18
A5673	5¾x14½	.32
A5674	7 x14½	.47
A5675	8¾x14½	.76
A5676	10½x14½	.97
A5677	12¾x14½	2.35
A5678	14 x14½	2.50
A5679	15¾x14½	2.65
A6388	17½x14½	2.94
A6389	19¾x14½	3.09
A6390	21 x14½	3.23

BACK SECTIONS

No.	Size	NET EACH
A6391	3½x19"	$0.44
A6392	5¾x19	.53
A6393	7 x19	.59
A6394	8¾x19	.73
A6395	10½x19	.88
A6396	12¾x19	1.03
A6397	14 x19	1.18
A6398	15¾x19	1.32
A6573	17½x19	1.47
A6574	19¾x19	1.62
A6575	21 x19	1.76

CHASSIS FOR RELAY RACKS

These chassis bases are designed to fit all standard relay racks. Four sizes take care of every requirement. Made of auto body steel; zinc-coating prevents rust. Sides 3 in. high. Readily machined. May also be used for receiver chassis bases.

No.	Size	NET	No.	Size	NET
A6576	2¾"x17"x3"	$0.88	A6578	10"x17"x3"	$1.03
A6577	7" x17"x2½"	.97	A6579	13"x17"x3"	1.47

RELAY RACK BRACKETS

Provides easy mounting of chassis bases and sub-panels to relay rack panels. Made of sturdy auto body steel with black crystalline lacquer finish. Will absolutely prevent sagging of shelves which are heavily loaded. Supplied in 3 sizes.

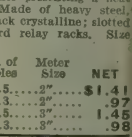
A7024. 5" Base Brackets. PER PAIR.... **35c**
A7025. 8" Base Brackets. PER PAIR.... **56c**
A7026. 11" Base Brackets. PER PAIR.... **73c**

METER PANELS

No need to scatter meters over all the panels in your rack... These panels allow all meters to be grouped together presenting a neat appearance. Made of heavy steel; finished in black crystalline; slotted to fit standard relay racks. Size 5¼x19".

Cat. No.	No. of Holes	Meter Size	NET
A7028	5	2"	$1.41
A7029	3	2"	.97
A7030	5	3"	1.45
A7031	3	3"	.98

GUARDIAN RELAYS



Model B-100 Break-in relay. D.P.D.T. type. Designed to provide rapid switching from receiving to transmitting with minimum number of switches. Can be used in a number of methods to permit fast break-in operation. Operates from 110 volt AC. Exceptionally heavy magnet and return springs for clean high-speed break.

A7707. Model B-100. NET **$4.41**

A7706. Model K-100. A single-pole-single-throw type relay for all keying circuits. Pure silver contacts break clean; positive return springs allow high-speed keying without sputtering. NET **$3.23**

SEE PAGES 137-138 FOR AMATEUR S. W. RECEIVERS

Transmitting Equipment

BLILEY MOUNTED CRYSTALS

Cut from the finest raw Brazilian quartz; accepted as standard by Amateurs throughout the entire world. Precision ground in the world's finest crystal laboratory. Frequency calibrations given are arrived at by comparison with a standard which is accurate to two parts in ten million, resulting in a precise, accurately calibrated crystal.

TYPE LD2

A new crystal with many features. Frequency drift is less than 4 cycles per megacycle per degree C.; eliminates need for oven equipment; has greater activity. Calibration is within .03%.

FREQUENCY WITHIN 5 KC.

No.	Band MC	NET EACH
A2540	7.0	$4.80
A2541	3.5	
A2542	1.7	

EXACT FREQUENCY

No.	Band MC	NET EACH
A2543	7.0	$5.90
A2544	3.5	
A2545	1.7	

TYPE HF1

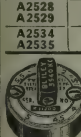
Specifically designed for the higher frequency bands. Available in two ranges: for 20 meter operation, and for multiplying into the 10 and 5 meter bands. "C" cut crystal has drift of only 20C/MC/°C; mounted between stainless steel machine-lapped electrodes in a holder of molded Victron G. For socket mounting.

No.	Frequencies	Within	EACH
A2547	14.0 to 14.4 MC	15 KC	$ 6.50
A2548	14.4 to 15.0 MC	30 KC	
A2515	14.0 to 14.4 MC	5 KC	10.00
A2516	14.4 to 15.0 MC	5 KC	15.00

TYPE BC3

Type BC3. Accurately calibrated X-cut crystal mounted in a molded bakelite holder, having exposed heat-radiating electrode. Plugs into 5 prong tube socket. Calibration is within .03%. Specify frequency when ordering.

STOCK NO.	Frequency Within	Band MC	NET EACH
A2528	± 5 KC	7.0	$3.95
A2529	± 5 KC	3.5	
A2534	EXACT	7.0	$4.95
A2535	EXACT	3.5	



VARIABLE FREQUENCY UNIT

TYPE VF-1

Easily adjusted variable crystal. Can be shifted up to 6 KC at the fundamental 3.5 MC frequency. Drift less than 4 C./MC./°C. Plug-in socket mounting.

A2517. Within 5 KC of specified 3.5 MC frequency. NET..... $8.00

A2518. Exact specified 3.5 MC frequency. NET..... $10.00

BLILEY CRYSTAL HOLDERS

Molded bakelite holders for inch square crystals. Threaded screw top. Plugs into tube socket. Mounts in any position.

A2537. 20-40 meter.
A2538. 80-160 meter. EACH..... 95c

INSULATED GRID CAPS

A2051. Standard size for receiving tubes. Black insulation. NET EACH 6c

A2076. Large size for transmitting tubes such as 866, etc..... 11c

PYROHM X-MITTING GRID LEAKS

Adjustable 200 watt vitreous enamel resistors. Scale on side. With brackets and slider.

No.	Resist. Ohms	NET EACH
A1475	5,000	$1.76
A1476	10,000	$2.06
A1477	20,000	
A1478	25,000	
A1479	50,000	
A1480	100,000	
A1481	Extra sliders. Each	9c

MIDGET STAND-OFF INSULATORS

Small glazed porcelain units. Inexpensive and efficient insulators for multi-stage rigs.

A6142. 2 inches high. Body 1⅝" with 10-32 nickel plated brass hardware. NET EACH 7c

A6143. 1⅜" high. Body 1" with 8-32 nickel plated brass hardware. NET EACH 5c

A6144. 13/16" high. Body ½" with 6-32 hardware. A tiny unit. NET EACH 4c

JACK TYPE

An assembly of 2" stand-off insulator and light duty jack. For low-power use.

A6145. NET EACH 9c

FEED-THRU STAND-OFF INSULATORS

The ideal method of bringing leads through chassis bases, or through sub-panels. Sturdy insulators of glazed porcelain. Universally accepted for transmitter use.

A2502. 1¼" high, ⅞" dia. base. Fits 7/16" hole. NET EACH 15c

A2503. ⅞" high, ¾" dia. base. Fits 7/16" hole. NET EACH 12c

A2504. ⅝" high, ⅝" dia. base. Fits 9/16" hole. NET EACH 7c

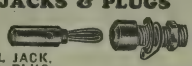
JACK TYPE FEED-THRU

Same units as listed above, but fitted with built-in jack on top. Jack fits standard GR plug.

A2505. 1¼" high, ⅞" dia. base; fits 7/16" hole. NET 18c

A2506. ⅞" high, ¾" dia. base; fits 7/16" hole. NET 15c

GR TYPE JACKS & PLUGS



Banana type plugs. Prongs of spring brass.

A2049. METAL JACK.
A2048. METAL PLUG.
DOZ., 41c. EACH..... 4c

Insulated Type

PLUG		JACK
A2044	RED	A2046
A2045	BLACK	A2047

100 FOR $4.90.
10 ASSTD., 55c. EACH..... 6c

TRANSMITTING CONNECTORS

A6146. JACK. 1⅛" high. Mounts with a 10-32 screw. NET EACH..... 12c

A6147. PLUG. Fits above jack. ¼" diameter with 10-32 nut; has hole in end. Fits ¼" copper tubing. NET EACH 4c

LO-LOSS TRANSMITTING 50 WATT SOCKET

For 50 watt tubes; flush mounting type. Positive contacts. Isotex insulation.

A2649. List, $1.50. NET..... 59c

JOHNSON X-MITTING SOCKETS

A6140. UX BASE. For type 10, 52 or other UX base tubes. Porcelain insulation; heavy spring contacts. List, $1.00. NET 59c

A6141. 50 WATT socket. Porcelain base with heavy dual phosphor bronze contact springs. Cadmium plated. List, $1.50. NET..... 88c

TRANSMITTING COIL FORMS

An ideal inductance form for transmitters and for numerous other uses. Bakelite body, 2¼" diameter, 3½" long, with molded finger grip rim. Winding space, 3¼". Ribs extending ¼" insure low-loss air-core winding. Two styles: plain and grooved. Grooved forms are threaded 12 turns per inch.

Plain Forms No.	Prongs	Grooved Forms No.	Prongs
A2650	4	A2661	4
A2651	5	A2662	5
A2652	6	A2663	6
NET EACH	44c	NET EACH	59c

COIL FORMS

Low-loss coil forms of Insulex. Particularly adapted for 20 and 10 meter operation. Threaded for No. 10 wire with plenty of holes for wire and supports. 20 and 40 meter coil forms 2½"x5". 80 and 160 meter coil forms 4"x6½".

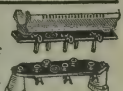
FOR 20 AND 40 METERS

A5696. Less supporting legs..... $0.59
A5697. With supporting legs..... .88

FOR 80 AND 160 METERS

A5698. Less supporting legs..... $1.18
A5699. With supporting legs..... 1.32

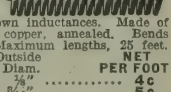
COIL MOUNTINGS



Jack and plug strips for use with above coil forms. Strip is of genuine Mycalex. The ideal high frequency plug-in arrangement for multi-stage transmitters. Furnishes rapid means of changing pre-adjusted coils.

A5600. Plug-in base 5 7/16"..... 68c
A5602. Plug-in base 6¾"..... 73c
A5601. Jack base 5 7/16". Fits both bases above 79c

SOFT-DRAWN COPPER TUBING



For winding your own inductances. Made of seamless soft drawn copper, annealed. Bends easily. 1/32" wall. Maximum lengths, 25 feet.

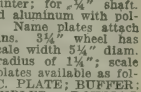
Stock No.	Outside Diam.	NET PER FOOT
A2475	⅛"	4c
A2476	5/16"	5c
A2477	⅜"	6c
A2478	5/8"	8c
A2479	¾"	9c
A2480	½"	13c

FLAT COPPER STRIP

May be wound flat or edgewise; for winding transmitting inductances.

A2481. ⅛" thick, ¼" wide. PER FT. 6c

COTO CONTROL WHEEL



A new line of dials and indicators especially suited for use on Amateur transmitters. Combine the advantages of both pointer and dial in an attractive professional type control. Wheel is molded black bakelite fitted with aluminum pointer; for ¼" shaft. Dial scale is black-finished aluminum with polished aluminum marking. Name plates attach easily with two small pins. 3¼" wheel has pointer radius of 1⅞"; scale width 5¼" diam. 2¼" wheel has pointer radius of 1¼"; scale width 3⅝" diam. Name plates available as follows: OSCILLATOR; OSC. PLATE; BUFFER; BUFFER PLATE; DOUBLER; DOUBLER PLATE; BUFR. DBLER. PLATE; GRID PLATE; TANK; NEUTRALIZE; PWR. AMP. GRID; PWR. AMP. PLATE; ANTENNA. Specify name plate desired when ordering complete control.

A2665. 3¼" Control Wheel. With name plate. NET..... $1.47
A2666. 3¼" Control Wheel only. With pointer. NET..... 1.18
A2667. 2¼" Control Wheel. With name plate. NET..... 1.18
A2668. 2¼" Control Wheel only. With pointer. NET..... .88

Transmitting Equipment

6L6GX

RAYTHEON

TRANSMITTING TUBES

Ruggedly built to give excellent service and long life at full rated output.

6L6GX

A "special" 6L6G for use in Amateur transmitters. Glass envelope, octal Isolantite base. For use in place of metal 6L6 in all R.F. circuits.
A475. NET..... **$1.90**

RK39

A beam-power transmitting tube, for oscillator or doubler use. Fil. 6.3 V.; Plate voltage 750 V. at 80 MA. max. Power output 20 to 30 watts.
A463. NET..... **$3.50**

RK39

TRIODES

Type	No.	Plate Diss.	Class of Service	NET
RK10	A414	12 W.	B-C	$ 3.50
RK16	A419	10 W.	A-C	4.50
RK18	A417	35 W.	B-C	10.00
RK24	A422	1.5 W.	C	2.25
RK30	A454	35 W.	B-C	10.00
RK31	A455	40 W.	B	10.00
RK32	A456	50 W.	C	12.00
RK34	A457	10 W.	B-C	3.50
RK35	A433	35 W.	C	8.00
RK36	A434	100 W.	C	14.50
RK37	A461	35 W.	B-C	8.00
RK38	A462	100 W.	B-C	14.50
RK100	A458	10 W.	C	7.00
841	A459	12 W.	C	3.25
842	A460	12 W.	A	3.25
864	A425	Preamplifier	A	1.65

PENTODES

Type	No.	Plate Diss.	Class of Service	NET
RK17	A418	10 W.	A-C	$ 4.50
RK20	A415	40 W.	C	15.00
RK23	A426	10 W.	C	4.50
RK25	A427	10 W.	C	4.50
RK28	A452	100 W.	C	34.50
RK39	A463	20 W.	C	3.50
6L6GX	A475	10 W.	C	1.90

RECTIFIERS

Type	No.	Peak Volts	Max. Amps.	NET
RK19	A416	1250	0.3	$ 7.50
RK21	A450	1250	0.3	5.00
RK22	A451	1250	0.3	7.50
866A	A423	10,000	0.6	4.00
872A	A424	10,000	2.5	16.50

CLASS OF SERVICE: CLASS A: Audio amplifier; CLASS B: Class B Modulator or Class B R.F. amplifier; CLASS C: R.F. Oscillator, Buffer, Doubler, or Amplifier.

EIMAC TUBES

Designed especially for heavy service, this line of tubes has a reputation for being able to "take a beating" and for long life. Plates and grids of tantalum; envelopes of hard Nonex glass. Will operate efficiently at either high or low frequencies. Real values; used by leading Amateurs.

TYPE 35T

Low-power general-purpose triode. Fil. 5 V. at 4 A.; Plate voltage 200 to 1500; Plate dissipation 35 watts. Ideal for use as H.F. oscillator or doubler.
A1089. YOUR PRICE **$8.00**

TYPE 100T-LO

General-purpose triode. Amplification factor 12. Plate dissipation 100 W.; Class C. power output up to 400 W. For R.F. service or Class B modulator.
A1092. YOUR PRICE **$13.50**

TYPE 100T-HI

General-purpose triode. Amplification factor 30. Same as 100T-LO but requires less driving power and lower bias. Especially suited for use in diathermy equipment.
A1093. YOUR PRICE..... **$13.50**

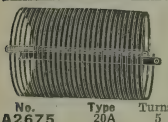
TYPE 250T-LO

High-power general-purpose triode. Low amplification factor. Plate dissipation 250 W. Class C power output up to 600 W. Excellent Class B modulator.
A1094. YOUR PRICE..... **$24.50**

TYPE 250T-HI

Same as 250T-LO above but with high amplification factor. Easier to drive.
A1098. YOUR PRICE..... **$24.50**

MERRILL LOW "C" TRANSMITTING INDUCTORS

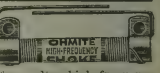


Designed for maximum efficiency in either high or low power transmitters. Low dielectric losses; rigid construction. More efficient and less bulky than copper tubing coils. "T" series coils which are wound with No. 10 wire will stand 1 KW input. "B" series coils are for medium power rigs; "A" series are for Antenna Coupling.

No.	Type	Turns	Dia.	NET	No.	Type	Turns	Dia.	NET
A2675	20A	5	3¼	$0.40	A2681	80B	38	2¾	$1.00
A2676	40A	8	3½	.60	A2682	160B*	38	4	.20
A2677	80A	12	4½	.80	A2683	20T	10	3¼	.00
A2678	160A	16	5	1.10	A2684	40T	20	3½	.25
A2679	20B	11	2¾	.70	A2685	80T	28	4½	.50
A2680	40B	22	2¾	.80	A2686	160T	42	5	2.00

* For use with 75 mmfd. capacitator. Other "B" and "T" coils use 35 mmfd.

OHMITE ULTRA H. F. CHOKE



A6805. Designed for ultra-high-frequency receivers and transmitters. Inductance 5.4 microhenries; resistance 0.85 ohms. Will carry 1000 MA. Size 1¾"x⁹⁄₁₆". 2" tinned leads. NET **15c**

CARDWELL CONDENSERS

MIDWAY

Sturdily built, compact, variable condensers. Aluminum plates and frames; Radion insulation. Double bearings assure perfect alignment. Peak voltage ratings for each type are at 4 MC. Shaft is ¼"x1" long. Overall mounting space 3"x2¾".

RECEIVING TYPE

Airgap .031"; peak voltage 1000. May also be used in low power transmitters.

No.	Type	Mmf.	NET
A2840	MR- 25-BS	26	$1.35
A2841	MR- 50-BS	50	1.41
A2842	MR- 70-BS	70	1.50
A2843	MR-105-BS	105	1.56
A2844	MR-150-BS	150	1.62
A2845	MR-260-BS	260	1.65
A2846	MR-365-BS	365	1.94

TRANSMITTING TYPE

For medium power transmitters up to 100 watts C.W. or 30 watts 'Phone. Airgap .070"; peak v., 3000; polished plates, rounded edges.

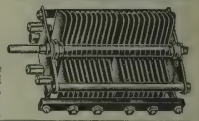
No.	Type	Mmf.	NET
A2850	MT- 20-GS	20	$1.68
A2851	MT- 35-GS	35	1.82
A2852	MT- 50-GS	50	2.06
A2853	MT- 70-GS	70	2.32
A2854	MT-100-GS	100	2.59
A2855	MT-150-GS	150	3.23

MIDWAY DOUBLE CONDENSERS

CAT. NO.	TYPE NO.	MMF. Per Sec.	PEAK V. Per Sec.	PLATES Per Sec.	NET
A2863	MR- 25-BD	25	1200	3	$2.32
A2864	MR- 50-BD	50	1200	5	2.47
A2865	MR-150-BD	150	1200	15	2.82
A2833	MR-100-BD	100	1200	11	2.70
A2866	MR-260-BD	260	1200	25	2.94
A2867	*MT- 20-GD	20	3500	5	2.97
A2868	*MT- 50-GD	50	3500	11	3.44
A2869	*MT- 70-GD	70	3500	15	3.82
A2834	*MT-100-GD	100	3500	21	4.70
A2835	MO-180-BD	180	2000	29	4.70

*Rounded Plate Edges.

TRANSMITTING



Extremely rugged, accurate and reliable. Rigid and vibration-proof. Peak voltage ratings are at 4 MC. Condensers rated at 4000 volts and over have polished, extra heavy plates with rounded edges. Improved brush type contacts. Compact size.

CAT. NO.	TYPE NO.	CAP. MMF.	PEAK VOLTS	NET
A2828	XT-220-PS	220	3500	$ 2.35
A2829	XT-440-PS	440	3500	4.12
A2815	†XP- 90-KS	90	4000	2.65
A2816	†XP-165-KS	165	4000	3.32
A2817	†XP-290-KS	290	4000	5.59
A2818	XP-330-KS	330	4000	5.88
A2819	XP-240-KS	240	4250	5.88
A2820	XG-110-KS	110	5250	5.29
A2821	†TJ-150-US	150	5200	13.52
A2822	†TJ-315-US	315	5200	18.82
A2811	†TZ- 80-RS	80	12000	23.23

DOUBLE TRANSMITTING CONDENSERS

CAT. NO.	TYPE NO.	MMF. Per Section	Peak Volts Per Sec.	NET
A2837	XT- 80-PD	88	3500	$ 2.94
A2838	XT-210-PD	214	3500	4.70
A2831	†XP-325-KD	325	4000	12.94
A2823	XG- 50-KD	50	5250	5.88
A2824	†XG-110-KD	110	5250	10.58
A2836	†TZ- 40-RD	40	12000	25.28

†Mycalex standard. All others available with Mycalex insulation at slight additional cost.

CARDWELL TRIM-AIR MIDGET CONDENSERS

For use wherever high-quality midget condensers are required. Rigid assembly mounted on Isolantite for minimum losses. For use as midget tuning or low power neutralizing condensers. Suitable for ganging.

No.	Peak V.	Mmf.	NET	No.	Peak V.	Mmf.	NET
A2832	1000	10	$0.73	A2860	750	75	$1.00
A2856	1000	15	.73	A2861	750	100	.03
A2857	1000	25	.82	A2862	750	140	.85
A2858	1000	35	.88	A2847	3000	30	1.09
A2859	1000	50	.94	A2839	4900	4	1.09

A2848. 4 Purpose Condenser. For ultra high frequency use. Used as (1) 3 plate condenser, 2 segment stator, (2) 3 plate condenser, single stator, (3) 2 plate condenser, 2 segment stator and (4) 2 plate condenser, single stator. NET..... **73c**

HIGH FREQUENCY CONDENSERS

A new series of condensers developed for use in high-power, high frequency circuits. Ideal for 5 and 10 meter transmitters or for diathermy machines. Special construction for high efficiency with minimum losses.

CAT. NO.	TYPE NO.	CAP. MMF.	PEAK VOLTS	NET
A2825	*NP-35-GD	35	4000	$3.53
A2826	JD-28-GD	28	4600	9.55
A2827	JP-48-GD	48	4000	9.55

*Isolantite Insulation.

CARDWELL ROTOR LOCKING DEVICE

For use where dial or knob adjustment from the front of panel is not required. Locks rotor section securely to prevent vibration from disturbing condenser setting.
A2849. List. 60c. NET..... **35c**

Transmitting Equipment

RCA DeFOREST TRANSMITTING TUBES

The complete line of RCA deForest transmitting tubes offers a tube for every Amateur need. Accepted by Amateurs all over the world.

NEW RCA-807 BEAM POWER TUBE

Designed for RF service. Plate connection at top; ceramic base. Improved shielding eliminates neutralizing. Plate dissipation 21 watts. Fil. 6.3 volts at 0.9 Amp. Max. plate 400 V. at 95 MA.

A261. NET **$3.90**

NEW RCA-913 CATHODE RAY TUBE

A new low-voltage cathode ray tube of the electrostatic deflection type. Has one inch screen. Especially suited for incorporation in Amateur transmitters, oscilloscopes and oscillographic equipment.

A264. NET **$5.60**

TRIODES AND PENTODES

Type	Cat. No.	Plate Dis.	Class of Service	NET
203A	A210	100 W.	B-C	$ 15.00
204A	A211	250 W.	B-C	97.50
211	A212	75 W.	A-B-C	15.00
800	A213	35 W.	B-C	10.00
801	A214	20 W.	A-B-C	3.45
802	A239	10 W.	C	3.90
803	A241	125 W.	C	34.50
804	A270	40 W.	C	15.00
805	A271	125 W.	B-C	15.00
806	A269	150 W.	B-C	24.50
807	A261	21 W.	C	3.90
808	A262	50 W.	B-C	10.00
830B	A265	60 W.	B-C	10.00
834	A266	50 W.	C	12.50
837	A272	12 W.	C	8.50
838	A242	100 W.	B-C	16.00
840	A243	1 W.	A	6.00
841	A216	15 W.	A-B-C	3.25
842	A217	12 W.	A	3.25
843	A218	15 W.	A-C	12.50
844	A219	15 W.	C	18.00
845	A220	75 W.	A-B	15.00
849	A221	300 W.	A-B-C	160.00
850	A222	100 W.	C	37.50
852	A224	100 W.	C	16.40
860	A225	100 W.	C	32.50
864	A227	Preamplifier	A	1.00
865	A228	15 W.	C	12.75
868	A229	Photo-tube	.....	3.70
917	A244	Photo-tube	.....	4.75
918	A245	Photo-tube	.....	4.50
919	A268	Photo-tube	.....	4.75
920	A273	Photo-tube	.....	5.25
954	A246	Acorn Pentode	C	5.00
955	A230	Acorn Triode	C	3.00
956	A263	Acorn Pentode	C	5.00
1602	A275	12 W.	A-B-C	2.75
1603	A276	Preamplifier	A	3.25

CLASS OF SERVICE; CLASS A: Audio amplifier. RF amplifier. CLASS C: RF oscillator, RF amplifier.

RECTIFIERS

Type	Catalog Number	Peak Inv. Volts	Max. Amps.	NET
217A	A247	3500	0.6	$20.00
217C	A250	7500	0.6	20.00
836	A267	5000	0.25	11.50
866	A206	7500	0.5	1.75
866A	A231	10000	0.5	4.00
872	A232	7500	2.5	14.00
872A	A233	10000	2.5	16.50
878	A234	20000	.005	11.00
879	A240	7500	.007	3.00
885	A235	Gas Triode		2.00

CATHODE-RAY TUBES

903...A251. 9 in. Electromagnetic Deflection ..... $ 86.00
904...A236. 5 in. Electrostatic-Magnetic Deflection 52.50
905...A237. 5 in. Electrostatic Deflection 45.00
906...A238. 3 in. Electrostatic Deflection 15.00
907...A252. 5 in. Electrostatic Deflection 48.75
908...A253. 3 in. Electrostatic Deflection 18.00
909...A277. 5 in. Electrostatic Deflection 49.00
910...A278. 3 in. Electrostatic Deflection 21.25
911...A279. 3 in. Electrostatic Deflection 22.50
912...A280. 5 in. Electrostatic Deflection 163.40
913...A264. 1 in. Electrostatic Deflection 5.60

CLASS B: Class B Modulator, Class B

Taylor Tubes

TRANSMITTING TYPES

New Ultra H. F. Tubes

T20 Oscillator, R.F. Amplifier, Modulator. Plate dissipates 20 watts. A1074. NET.. **$2.45**

T55 Oscillator, R.F. Amplifier. Plate dissipates 55 watts. A1085. NET **$8.00**

T155 Oscillator, R.F. Amplifier. Plate dissipates 155 watts. A1086. NET **$19.50**

T200 Oscillator, R.F. Amplifier. Plate dissipates 200 watts. A1087. NET **$21.50**

GENERAL PURPOSE TUBES

866 Jr. Half-Wave mercury vapor rectifier. A1073. NET.... **$1.00**

866 Half-Wave mercury vapor rectifier. A1075. NET... **$1.65**

756 Oscillator, Doubler, Modulator. Dissipates 40 watts. A1088. NET **$4.95**

825 Oscillator, R.F. Amplifier, Modulator. Dissipates 40 watts. A1076. NET **$4.95**

203B (Metal Plate.) Audio and low power R.F. Amplifier. Diss. 50 watts. A1080. NET..... **$7.50**

841A H.F. Oscillator, Doubler, R.F. Amplifier. Dissipates 50 watts. A1082. NET **$7.00**

845 Audio Amplifier, Modulator. Delivers 22 to 28 watts Class A. A1083. NET **$12.50**

203A Oscillator, R.F. Amplifier, Modulator. Dissipates 100 watts. A1077. NET **$12.50**

211C H.F. Oscillator, R.F. Amplifier, Modulator. Diss. 100 watts. A1081. NET **$12.50**

HD203A Oscillator, R.F. Amplifier, Mod. Diss. 150 watts. A1079. NET.... **$17.50**

822 (Super HD203A.) Osc., Ampl., Mod. Dissipates 200 watts. A1084. NET **$18.50**

OSCILLOSCOPE KIT

Build your own oscilloscope. Indicates audio distortion, R.F. wave form, percentage of modulation, etc. Kit contains neon tube with mounting clips, 3"x 5" unbreakable mirror with motor shaft adapter and complete instructions.

A6227. Oscilloscope Kit..... **$2.00**

A6228. Neon tube only. YOUR PRICE **$1.50**

RCA TUBE DATA BOOK

A248. Contains valuable technical and operating information on RCA-deForest Amateur Transmitting tubes. NET..... **10c**

TECHNICAL SUPPLEMENT

Contains information on these new tubes: RCA 801, 802, 838, 850, 954 and 955.

A249. NET **10c**

BOTH FREE WITH TUBE PURCHASE

CATHODE RAY TUBE DATA

A complete booklet on the operation of Cathode Ray tubes. Detailed data of real value.

A256. YOUR PRICE..... **25c**

GAMMATRON HK354

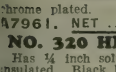
A medium power general purpose triode with Tantalum elements, Tungsten supports, and Nonex glass envelope. Fil. 5 V. at 10 A. Plate voltage 1000 to 4000 volts; dissipation 150 watts. Power output Class C, 300 to 950 watts.

A1054. HK354. NET **$24.50**

HK154 A new UHF tube. Fil. 5 V.@6.5 A. Plate 1500 V. Dissipation 50 W. For Class "B" Mod. and R. F. Service. A1053. NET **$12.50**

SPEED-X TRANSMITTING KEYS

NO. 301 AMATEUR'S KEY



A good standard key, sturdily constructed. Moulded bakelite base. Coin silver contacts. Arm and binding post chrome plated.

A7961. NET **$1.12**

NO. 320 HEAVY DUTY KEY

Has ¼ inch solid coin silver contacts. Well insulated. Black base. All other parts chrome plated.

A7962. List. $3.00. NET..... **$1.76**

NO. 310 STANDARD KEY

Skeleton design. Well constructed. Coin silver contacts. Black base with chrome plated parts.

A7963. List. $2.25. NET..... **$1.32**

NO. 300

Well-made low-cost practice key.

A7960. NET **80c**

HI-SPEED AUTOMATIC KEY

NO. 501

A professional key fully adjustable from 8 words per minute to as high as desired. Will hold adjustment at all speeds. Coin silver contacts.

A7964. List, $12.50. NET..... **$7.35**

JUNIOR HI-SPEED KEY

Similar to No. 501 but smaller. A favorite among amateurs. Black lacquered finished base. Other parts chrome finish.

A7965. List. $9.50. NET..... **$5.59**

SPEED-X BUZZER

A professional constant frequency buzzer. Will hold its adjustment. Resistance 2 ohms. Works on 2 dry cells, or 1 "C" battery.

A7966. NET **64c**

MAC-KEY

Built by T. R. McElroy, world's fastest telegrapher. Heavy cast base anchors key firmly to table. Contact points perfectly alignable. Vibrationless and stutter-proof. Easy to use and non-tiring.

A7968. List, $13.25. NET..... **$7.95**

MAC OSCILLATOR

For the beginner learning the code. Provides pure tone adjustable at 600, 800 or 1000 cycles. Requires 2—76 tubes. Shpg. wt., 2 lbs. For 110 volts A.C. or D.C.

A7970. YOUR PRICE..... **$3.95**

CODE PRACTICE SET

A Signal key and adjustable buzzer on polished wood base. Reproduces high-pitched code signals.

A7703. NET **$2.00**

TEST BUZZER BUTTON

Pearl button held in ⅝ in. hole by spring clasps.

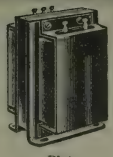
A3977. NET **16c**

Transmitting TRANSFORMERS AND CHOKES

THORDARSON TRANSFORMERS—CHOKES

Filament

A popular Amateur line offering a complete variety of transformer equipment for dependable power supplies. Heavily constructed; conservatively rated for assured long-lived performance. Types listed below are for 110-115 Volts, 50-60 cycles. 25 cycle, 110 volt primaries are available at 60% net additional. 220 volt, 50-60 cycle primaries can be had at 30% extra.



Plate

PLATE TRANSFORMERS

Cat. No.	Type	AC Volts	DC Volts	MA	Size	NET
A11156	T6280	1450 C.T.	525	150	6¼x4½x4⅛"	$ 5.29
A11157	T7041	1450 C.T.	525	250	6¼x4½x5"	5.88
A11158	T5448	1600 C.T.	680	150	6¼x4½x3⅛"	4.70
A11159	T7127	1600 C.T.	600	250	6¼x4½x4⅞"	7.06
A11160	T6412	1960 C.T.	750	350	8 x6¾x6⅝"	10.58
A11161	T6282	2670 C.T.	1000	500	11 x6¾x6¼"	20.58
A11162	T6411	3200 & 2580 C.T.	1250 or 1000	280	8 x6¾x7½"	13.52
A11163	*T6283	4700 C.T.	2000	250	11 x6¾x6½"	21.17
A11164	*T6284	4840 C.T.	2000	500	11 x6¾x8¾"	32.93
A11165	*T6285	6260 C.T.	3000	380	11 x6¾x10"	38.22
A11166	T5489	2540 C.T.	1000	400	8 x6¾x6⅞"	12.94
A11167	T6257	1500 C.T.	625	200	6¼x4½x3⅜"	5.88
A11168	T5303	930 C.T.	400	150	5 x3¾x4⅛"	4.12
A11169	T6095	1090 C.T.	450	250	6½x4½x3⅝"	5.88

*Primary has 220 V. tap which may be used on 110 V. to reduce secondary voltage 50%.

FILAMENT TRANSFORMERS

Cat. No.	Type	Secondary Volts	Secondary Amps.	Insulation	Size	NET
A11183	T6435	7.5 at	6.5	1600	3⅜x3⅜x4"	$2.94
A11184	T6413	7.5 at	2.5	1600	2½x3 x3¼"	1.91
A11185	T6414	10.0 at	6.5	1600	3⅜x3⅜x4"	3.23
A11186	T6415	11.0 at	10.0	1600	3⅞x4¼x4⅝"	4.41
A11187	T6433	2.5 at	10.0	7500	3⅜x3⅜x4"	3.23
A11188	T7046	5.0 at 5.0 at 5.0 at	3.0 3.0 6.0	5000	3⅜x4 x4"	4.56
A11189	T7423	5.25 at	12.0	1600	3⅜x3½x4"	2.94
A11190	T7424	5.25 at (Elmac 250T)	20.0	1600	3⅞x3⅞x4⅝"	4.12
A11191	T6185	6.3 at or 5.0 at or 2.5 at	2.5 3.0 3.0	1600	2 x2⅝x2¼"	1.18
A11192	T5469	2.5 at	5.0	1600	2 x2 x2⅜"	1.18
A11193	T6432	2.5 at	10.0	1600	2⅞x3 x3⅜"	2.35
A11194	T6399	5.0 at	3.0	1600	2½x3 x3¼"	2.06
A11195	T6417	7.5 at 7.5 at 2.5 at	6.5 4.5 4.0	1600	3⅞x4¼x4⅝"	5.29
A11196	T6094	5.0 at 2.5 at	6.0 14.0	1600	3⅜x3½x4⅝"	2.79
A11197	T5466	2.5 at 7.5 at	3.5 2.5	1600	2¾x3 x3¾"	1.91

SWINGING CHOKES

Cat. No.	Type	Henries	MA	Ohms	Size	NET
A11198	T6405	10–30.3	150–0	200	3½x3⅜x4⅝"	$2.94
A11199	T6315	12.3–38.4	280–0	175	4 x4½x6½"	5.00
A11200	T6316	8.2–17	500–0	70	5 x5½x6¾"	8.23

FILTER CHOKES

Cat. No.	Type	Henries	MA	Ohms	Size	NET
A11201	T6409	19.7	150	275	3⅞x4 x4½"	$3.23
A11202	T6408	23.6	280	190	4½x4½x6¾"	5.88
A11203	T6410	16.5	500	110	6½x6¾x7⅜"	10.00
A11204	T5450	12.9	250	121	3 x3¾x4⅜"	2.94
A11205	T5319	7.2	120	290	2 x2 x2⅜"	.79

New Plate Modulation Transformer

Cat. No.	Type	Modulator Tubes	To Modulate	Sec. Imp.	Sec. M. A.	Max. Watts	NET
A11207	T8470	2-6L6 Class AB 2-35T Class B	....	2500 5000 7500	150 200 250	75	$5.88

Plate and Screen Modulation Transformers

Have double secondaries for simultaneous modulation of plate and screen of R. F. Pentodes. Will allow complete modulation at high level.

A11105	T7994	2-42 or 2A5 Class AB		5000 Pl. 800 Sc.	100 50	40	$3.23
A11106	T7861	2-46 or 59 Class B	2-802 1-RK20 or 1-805	13300 Pl. 532 Sc.	75 40	40	4.70
A11107	T7826	2-801 Class B	2-RK20 or 2-804	6600 Pl. 264 Sc.	150 120	200	9.41
A11108	T7827	2-800 Class B	1-RK28 or 1-803	13300 Pl. 2130 Sc.	150 100	200	12.94

New Grid Modulation Transformers

A11109	T6773	1-46 or 59 Class A	.....	5400	.....	10	$2.35
A11139	T6774	2-45 or 2A3 Cl. AB	.....	5000	.....	20	2.94

THORDARSON TRANSMITTER MANUAL

A11206. Contains a wealth of data on new up-to-the-minute circuits, tubes, transformers, coils, modulation, etc. NET..... **9c**

THORDARSON HIGH POWER TRANSFORMER

Ideally suited for use in low-power Amateur transmitters. Primary, 110 V. 50/60 cy. Secondaries: 1200 V. at 200 M.A.-C.T.; 7.5 V. at 3A.-C.T.; 5 V. at 3A.-C.T.; 2.5 V. at 10 A.-C.T.; fully shielded; lug terminals on all secondaries. Insulated leads on primary. Shpg. wt., 12 lbs.

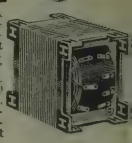
A11141. NET..... **$2.45**

KNIGHT PLATE TRANSFORMERS

A5152. High quality, moderately priced plate transformer for medium and low-power transmitters. Fully enclosed in cast case with standoff insulator type terminals. Secondary, 1000-750-0-750-1000 Volts at 300 M.A. Primary, 110 V. 50/60 cycles. Sturdy construction; well-insulated. An exceptional value. Shpg. wt., 22 lbs.

YOUR PRICE..... **$7.95**

A6056. A sturdy transformer that will fill many requirements of Amateur transmitters. Secondary, 750-0-750 Volts at 200 M.A. Universal mounting. Primary, 110 V. 50/60 cycle. Shpg. wt., 8 lbs. NET..... **$2.75**



A5150. A husky, uncased transformer built for real service in "Ham" rigs. Pri. 110 V. 50/60 cy.; sec. 1000 - 750 - 500 - 0 - 500-750-1000 V. at 300 M.A. Universal mount. 15 lbs. NET..... **$6.20**

KNIGHT FILTER CHOKES

A5153. Swinging Choke. Especially designed for input choke of transmitter or modulator power supplies. Capacity 200 M.A.; inductance 8-30 henries. Fully cased; insulated wire leads. A real value in a high-quality swinging choke. Size 3⅝"x3¼"x 4⅛"; weight 6 lbs.

A5149. Smoothing Choke. For use as second choke in all medium or low-voltage power packs. Inductance 30 henries at 200 M.A.; 100 ohm D.C. resistance. Shielded type, insulated wire leads. Size 3⅝"x3¼"x4¼". An efficient filter choke of highest quality at an exceptionally low price.

NET EACH **$2.10**

KNIGHT FILAMENT TRANSFORMERS

A5154. 2.5 Volts at 10 Amps. For 2—866's, or for several 2.5 Volt tubes. Insulation 5000 volts. 2¼" x 2½" x 3". Weight 2½ lbs.

NET EA. **$1.35**

A5155. 7.5 Volts at 4 Amps and 2.5 Volts at 5 Amps. Ideal for use in low-power multi-stage rigs or speech-amplifier-modulators. 2¼"x2½"x3"; wt. 3½ lbs. NET..... **$1.55**

A5156. 6.3 Volts at 4 Amps. Designed for the new 6L6 Beam Power tubes, and for multi-tube receivers or transmitters. 2¼x2½x3"; wt. 2½ lbs. NET..... **$1.30**

CORNELL-DUBILIER MICA TRANSMITTING CONDENSERS

Type 9

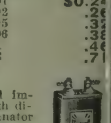
Type 4

A superior, high grade condenser of sturdy build. Voltage rating is conservative. Small in size but giants in performance. Can Be Supplied in Special Low-Loss Bakelite Cases at 15c Each Additional.

1000 VOLTS D.C. TEST—600 VOLTS D.C. WORKING

TYPE 9 No.	Mfd.	NET	TYPE 4 No.	Mfd.	NET
A3915	.00005	24c	A2720	.00005	21c
A3916	.0001		A2721	.0001	
A3917	.00025		A2722	.00025	
A3918	.0005		A2723	.0005	
A3919	.001	$0.29	A2724	.001	$0.24
A3920	.002	.29	A2725	.002	.26
A3921	.005	.41	A2726	.005	.32
A3922	.006	.50	A2727	.006	.38
A3923	.01	.67	A2728	.01	.46
A3924	.02	1.09	A2729	.02	.71

OIL-FILLED CONDENSERS



Ideal amateur transmitting condensers. Filled and impregnated with "Dykanol," a special oil with a very high dielectric constant. This special non-inflammable impregnator provides a maximum safety margin, and allows extremely compact, light-weight construction. Equipped with glazed porcelain high-tension insulators. Mounting lugs at bottom. Smaller capacities measure 1⅜"x1¼"; largest 3⅝"x1¼".

TYPE TJ

No.	Mfd.	Volts	Ht.	NET	No.	Mfd.	Volts	Ht.	NET
A3940	1	600	2⅛"	$1.50	A3868	1	1500	4"	$2.20
A3941	2	600	2⅞"	2.06	A3869	2	1500	4 5/16"	3.6
A3942	4	600	3 7/16"	2.65	A3870	4	1500	4 13/16"	5.2
A3943	1	1000	2⅛"	1.65	A3871	1	2000	3 7/16"	3.0
A3944	2	1000	4"	2.65	A5872	2	2000	4 1/16"	4.7
A3945	4	1000	4 13/16"	4.12					

FOR COMPLETE INDEX SEE PAGES 135-136

Transmitting TRANSFORMERS AND CONDENSERS

JEFFERSON TRANSFORMERS

Highest quality transformers and chokes conservatively rated to insure a wide margin of safety. Each unit is the product of all the skill and knowledge that Jefferson engineering experience can provide. Built for best performance and continuous service.

FILAMENT & PLATE SUPPLY TRANSFORMERS

464-211

An entirely new line of Amateur power supply components. Built to last and rated conservatively. Oversized construction throughout. All primaries are for 115 Volts, 50-60 cycles. All secondaries are center-tapped. Adequate insulation assures freedom from breakdown.

465-171

FILAMENT TRANSFORMERS

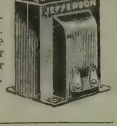
Cat. No.	Type	Secondary Volts Amps.	Insulation	Size	NET
A6043	464-211	2.5 at 5.25	1500	2 x3¼x1⅞"	$0.82
A6044	464-221	6.3 or 5.0 at 4.0	1500	2⅛x4 x2⅜"	1.18
A6042	464-201	2.5 at 12.0	7500	2¼x4 x2¼"	1.18
A6045	464-241	10.0 at 7.0	5000	4 x3¼x3¼"	2.35
A6046	464-281	2.5 at 12.0	7500	4⅛x3¼x5⅛"	2.53
A6047	464-271	7.5 at 6.5	2000	4⅛x3¼x5⅛"	2.53
A6048	464-291	10.0 at 7.0	5000	4⅛x3⅜x5¼"	3.53

PLATE TRANSFORMERS

Cat. No.	Type	AC Volts	DC Volts	MA	Size	NET
A6121	465-151	850-C.T.	350	125	3¾x4 x4¼"	$2.94
A6122	465-161	1500-C.T.	650	150	3⅞x4 x4¼"	2.29
A6123	465-171	1770-C.T.	750	200	4 x5¾x5⅛"	7.06

CHOKES

Machine-wound for accuracy; thoroughly impregnated. Accurately rated to assure adequate filtering. Types for every transmitter and receiver requirement are listed below.



FILTER CHOKES

Cat. No.	Type	Henries	MA	Res.	Size	NET
A6125	466-230	50	60	1400	2⅛x2⅛x4"	$0.88
A6041	466-260	5	120	150	1⅝x2⅛x2⅞"	.59
A6039	466-220	10	150	200	2⅛x2⅛x4"	1.03
A6038	466-210	15	150	425	2⅛x4¼x3"	1.03
A6126	466-330	12	200	150	4⅛x3⅜x4½"	2.94

SWINGING CHOKES

Cat. No.	Type	Henries	MA	Res.	Size	NET
A6127	466-190	8 to 2.7	50 to 150	80	3⅛x2⅞x2⅜"	$1.32
A6128	466-300	6 to 3	120 to 200	75	3⅛x2⅛x2⅛"	.47
A6129	466-320	15 to 5	70 to 200	95	3⅜x4⅛x4½"	2.94

STANCOR TRANSFORMERS AND CHOKES

Filament

High quality power supply components. Sturdily constructed. All units have 110-115 Volts, 50-60 cycle primaries. They may be had for 25 cycle, 110-115 Volts at 60% net additional, and for 220 Volts, 50-60 cycle at 15% net additional. All secondary windings are center-tapped.

Plate

PLATE TRANSFORMERS

Cat. No.	Type	Primary	DC Volts	MA	Mtg. Area	NET
A11210	XP3010	105-115	500 or 400 at 175		4x3½"	$ 4.70
A11211	XP3011	105-115	750, 500, or 600 at 250		4x5"	8.82
A11212	XP3012	105-115	1000 or 750 at 400		6½x7"	14.70
A11213	XP3013	105-115	1250 or 1000 at 500		7x7"	23.52
A11214	XP3014	105-115	2000 or 1500 at 250		7x6¾"	20.58
A11215	XP3015	105-115	2000 or 1500 at 500		7x6¾"	30.87

FILAMENT TRANSFORMERS

Cat. No.	Type	Secondary Volts Amps.	Insulation	Mtg. Area	NET
A11275	XP4018	7.5 at 7.5	1500	2⅞x3¾"	$2.50
A11217	XP3021	10.0 at 6.5	1500	3¼x3½"	4.12
A11218	XP3026	5.0 at 3.0	1500	2⅜x2⅝"	2.06
A11219	XP3025	2.5 at 10.0	7500	2⅞x2¹³⁄₁₆"	2.53
A11276	XP4017	5.0 at 3.0 6.3 at 3.6	1500	2¾x2⅝"	2.06
A11220	XP3030	2.5 at 10.0 5.0 at 3.0	7500	3¼x2¹³⁄₁₆"	2.94
A11221	XP3032	5.0 at 3.0 5.0 at 6.0	7500	3¼x3½"	4.26
A11222	XP3033	5.0 at 3.0 7.5 at 2.5 2.5 at 5.0	1500	3¼x2¹³⁄₁₆"	2.94

SWINGING CHOKES

Cat. No.	Type	Henries	MA	Insulation	Mtg. Area	NET
A11223	XC1400	8-40	175-0	2000	2⅜x2⅝"	$1.79
A11224	XC1401	8-30	200-0	2000	2¹³⁄₁₆x2⅞"	2.23
A11225	XC1402	8-30	250-0	2000	2¹³⁄₁₆x3¼"	2.38
A11226	XC1403	8-25	300-0	3000	4 x3¾"	3.94
A11227	XC1404	5-25	400-0	5000	4 x4¾"	4.94
A11228	XC1405	5-20	500-0	5000	6⅛x6"	9.40

FILTER CHOKES

Cat. No.	Type	Henries	MA	Insulation	Mtg. Area	NET
A11229	XC1421	25	140	1000	2⅜x2⅝"	$1.82
A11230	XC1410	20	175	1000	2⅜x2⅝"	1.76
A11231	XC1411	18	200	2000	2¹³⁄₁₆x2⅞"	2.00
A11232	XC1412	15	250	2000	2¹³⁄₁₆x3¼"	2.41
A11233	XC1413	12	300	3000	4 x3¾"	4.12
A11234	XC1414	10	400	5000	4 x4¾"	5.20

LATEST STANCOR TRANSMITTER GUIDE

A11240. A new manual full of circuits for C. W. and phone transmitters. Designs range from inexpensive low-power rigs to more complicated and costly circuits. Important transformer specification charts included. Every Amateur should have this book. NET... **10c**

CONTINENTAL TRANSMITTING CONDENSERS

Compact, high-voltage, non-inductive condensers especially designed for use in Amateur transmitters. Conservatively rated; will give maximum life and performance. Will withstand heavy overloads. Completely wax-impregnated. "W" type condensers have binding post terminals mounted on highly efficient porcelain stand-off insulators, eliminating breakdowns and flash-overs at the condenser terminals. Condensers equipped with eats to facilitate mounting.

W-TYPE

No.	Mfd.	Volts	Size	NET
A7880	1	1000	5x2x2"	$1.23
A7881	2	1000	5x2⅛x1⅞"	1.94
A7882	4	1000	5x2⅛x2¼"	2.85
A7883	1	1500	5x2⅛x1⅞"	1.71
A7884	2	1500	5x2⅛x2¼"	2.29
A7885	4	1500	5x4x3"	3.82
A7886	1	2000	5x2⅛x1⅞"	2.09
A7887	2	2000	5x2⅛x2¼"	2.79
A7888	4	2000	5x4x3"	5.29

H-TYPE

Midget high voltage condensers similar to above, but with solder lug terminals on white porcelain insulators. Non-inductive; wax-impregnated; conservatively rated. In aluminum-finished metal containers.

No.	Mfd.	Volts	Size	NET
A7875	1	1000	3x2x2"	$1.03
A7876	2	1000	3x2x2"	1.47
A7877	4	1000	5x2x2"	2.65
A7878	1	1500	3x2x2"	1.32
A7879	2	1500	5x2x2"	1.91

GENERAL ELECTRIC PYRANOL TRANSMITTING CAPACITORS

Attractive, durable transmitting condensers of the best quality. These condensers will give exceptional service and long life. Filled and treated with Pyranol, a non-inflammable, non-explosive substance of unusual dielectric qualities. Hermetically sealed, with porcelain lead-out bushings. Equipped with mounting lugs for easy upright mounting.

No.	Model	Mfd.	Volts	NET
A5400	9CE5A21	1	600	$1.61
A5401	9CE5A22	2	600	2.06
A5402	9CE5A24	4	600	2.65
A5403	9CE5A30	1	1000	1.76
A5404	9CE5A31	2	1000	2.65
A5405	9CE5A33	4	1000	4.12
A5406	9CE5A40	1	1500	2.20
A5407	9CE5A41	2	1500	3.67
A5408	9CE5A43	4	1500	5.29
A5409	9CE5A50	1	2000	3.09
A5410	9CE5A51	2	2000	4.70
A5411	9CE5A53	4	2000	6.46
A5412	9CE5A59	1	2500	8.24
A5413	9CE5A60	2	2500	10.58
A5414	9CE5A61	4	2500	14.70

G. E. Pyranol Transmitting Capacitors are available in voltage ratings up to 5000 volts D.C. Write for complete descriptions and prices.

SPECIAL 4 MFD. 1000 VOLT PAPER CONDENSER

A popular size for use in Amateur transmitting power supplies. High quality at an exceptionally low price. Conservatively rated at 1000 Volts D.C. working, 2000 Volts D.C. test. In attractive metal case; 4½"x4¼"x2¼", with heavy insulated wire leads. Easy to mount. Will give long, dependable service. Shpg. wt., 5 lbs.

A7899 YOUR SPECIAL PRICE **$1.95**

MALLORY OIL-FILLED TUBULAR CONDENSERS TYPE OT

Designed especially for severe service, in Amateur transmitters and with many types of vibrators. Non-inductive, of low RF impedance and low power factor. May be used for by-pass work in all types of circuits. Oil filled and oil-impregnated, carefully and effectively sealed in metal container. Unbeatable values at these low prices.

Working Voltage 2000 Volts

No.	Mfd.	Size	NET
A2618	.0025	1¾x⅝"	32c
A2619	.005	1¾x⅝"	
A2620	.01	1¾x⅝"	
A2621	.02	2½x¾"	35c
A2622	.03	2½x¾"	38c
A2623	.04	2⅝x¾"	41c
A2624	.05	2⅝x¾"	44c

RADIO-BUILDERS' SUPPLIES

CRYSTAL-FINISHED CABINETS

WITH HINGED LIDS

Sturdy steel cabinets finished in black crystallized lacquer. Front and back panels, or bottom, easily removed. Front panels may be replaced with bakelite or other material. Ideal for receivers, transceivers, monitors, frequency meters, etc. Supplied knocked-down for easy shipping. Can be easily assembled in a few minutes with only a screwdriver.

NO.	LENGTH	WIDTH	HEIGHT	NET
A9564	9"	5"	6"	$1.45
A9565	10"	8"	7"	1.85
A9562	10"	8"	10"	2.00
A9566	12"	8"	7"	2.13
A9563	12"	11"	8"	2.43
A9567	14"	8"	7"	2.53
A9568	18"	12"	9"	3.42

TUBE SHIELDS AT LOW PRICES

CLOSE-FITTING TUBE SHIELDS

For ST12 Bulbs

Space-savers. Replace old shields; also for spray-shield type tubes. Body consists of two snug fitting identical half shields with cap and base assuring perfect fit. For large and small dome-sized tubes such as 1A6, 2A7, 38, 75, 89, 12A5, 57, 58, etc.

A5255. For short tubes with grid caps, as 1A6, 2A7, 38, 75, 89, etc.

A5256. For short tubes without grid caps, as 6Y5, 12A5, 27, 30, 31, etc.

A5257. For long tubes with grid caps, as 6C6, 6D6, 57, 58, etc.

A5258. For long tubes without grid caps.

NET EACH **6c**
LOTS OF 10 .... 50c

For S14 and ST14 Bulbs

A5253. For S14 straight side tubes such as 24A, 27, 32, 35, etc.

A5254. For ST14 dome-shaped tubes such as 24A, 32, 35, 2A5, 01A, 26, 45, 71A, etc.

NET EACH **6c**
LOTS OF 10 .... 50c

VENTILATED 3 PIECE SHIELD

For ST12 bulbs, such as 55, 57, 2A7, etc. Made of aluminum; well-ventilated, with curled-in neck to hold tube. Shell measures 1⅝" dia., 3½" high. 4½" high overall with cap which is slotted for grid lead. With base and cap.

No.	Mtg. Centers	EACH
A5115	1 27/32"	**10c**
A5116	1½"	
A5117	1 11/16"	

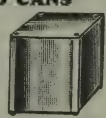
Lots of 10, 80c. 100 lots, $6.60.

2 PIECE STANDARD TUBE SHIELDS

Aluminum shields for 24, 27, 35, etc., type tubes. 5⅛" high, 1⅞" diameter. Lug screws attached to bottom. Mounting centers 1 27/32". Slotted for grid wire. Ventilated at top and bottom.

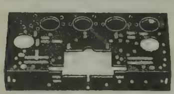
A1960.
NET EACH **12c**
PER 10 .... $0.98
PER 100 .... 8.25

SHIELD CANS



Shield cans made of non-corrosive non-magnetic metal, with drilled and tapped corner posts. Easy to cut and drill. Shipped knocked down.

No.	Size	NET
A5650	8x 8x6	$2.06
A5651	6x 6x6	1.71
A5652	9x 5x6	1.76
A5653	5x 5x6	1.62
A5654	4x 5x6	1.41
A5655	10x 8x6	2.35
A5656	14x 7x6	2.65
A5657	12x10x6	3.23
A5658	18x 9x6	4.12
A5659	12x 6x6	2.06



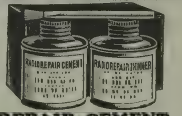
UNIVERSAL METAL CHASSIS

An ideal chassis base for experimenters. Has speaker cutout, mounting slots and holes for various parts, and 5 socket holes. Measures 9½"x5" with 1½" sides. May be used for 4 or 5 tube set and many other applications. Parts may be mounted to fit in any position. Stamped from heavy-gauge steel.

A9122.
YOUR PRICE ONLY **19c**

A9123. Bracket for Volume Control **3c**

A9124. Mounting bracket. Suitable for coil shield **5c**

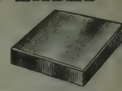


REPAIR CEMENT

For repairing coils and speaker cones. Kit consists of one can of cement, one can of thinner and a handy brush.

A2930. NET **34c**

RADIO METAL CHASSIS BASES



For use in constructing radio sets and amplifiers. Two types listed. Ternplate is heavy lead-coated steel. Solders easily. Electralloy is a rust-proof non-magnetic metal which is easy to drill and cut and which solders readily. Chassis bases are 2 or 3 inches high, with open bottoms. Folded on 4 sides. Undrilled. Wts. 3 to 7 lbs.

TERNPLATE

A9550. 7"x9"x2". YOUR PRICE **40c**
A9551. 7"x11"x2". YOUR PRICE **45c**
A9552. 7"x13"x2". YOUR PRICE **50c**
A9553. 10"x12"x3". YOUR PRICE **54c**
A9554. 10"x17"x3". YOUR PRICE **75c**
A9555. 10"x23"x3". YOUR PRICE **85c**

ELECTRALLOY

A9556. 7"x9"x2". YOUR PRICE **78c**
A9557. 7"x11"x2". YOUR PRICE **93c**
A9558. 7"x13"x2". YOUR PRICE **$1.05**
A9559. 10"x12"x3". YOUR PRICE **$1.15**
A9560. 10"x17"x3". YOUR PRICE **$1.47**
A9561. 10"x23"x3". YOUR PRICE **$1.73**

RUBBER PANELS

Special black hard rubber compound panels. Smooth finish. 3/16 inch thick. Will not warp.

No.	Size	EACH
A5615	7x 6	$0.39
A5616	7x 9	.53
A5617	7x12	.66
A5618	7x14	.77
A5619	7x18	.98
A5620	7x21	1.14
A5621	7x24	1.28
A5622	7x26	1.40
A5623	7x30	1.75

BAKELITE PANELS

High quality black bakelite panels. Smooth polished finish. 3/16 inch thick. Supplied in standard sizes listed, or cut to size.

No.	Size	EACH
A5625	7x 6	$0.59
A5626	7x 9	.85
A5627	7x12	1.15
A5628	7x14	1.30
A5629	7x18	1.60
A5630	7x21	1.80
A5631	7x24	2.10
A5632	7x26	2.30
A5633	7x28	2.55
A5634	7x30	2.57

CUT TO SIZE
Per square inch **1¾c**

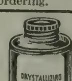
Please remit with order for special sizes.

WRINKLE-FINISH VARNISH

An attractive, modern wrinkle-finish for all metal chassis, panels, etc. Air drying; can be applied with brush or spray. Bottle contains ⅛ pint.

A1955. Black.
A1956. Brown.
A1957. Green.
EACH **26c**
PER PINT, EACH $1.32
Specify color when ordering.

Black Crystallizing Lacquer

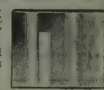


Will cover any metal surface with attractive black crystalline finish. Easily applied with brush or spray-gun. 20 minute air-drying.

A1950. 2 oz. Can. YOUR PRICE **21c**
A1951. 8 oz. Can. YOUR PRICE **65c**
A1953. 1 pt. Can. YOUR PRICE **$1.25**

METAL PANELS

Electralloy



Non-magnetic, stainless sheet metal. Ideal for all radio work requiring metal panels. Has beautiful dull silver finish. Easy to drill and cut. No. 16 gauge, about 1/16" thick.

No.	Size	EACH
A5605	7x10	$0.42
A5606	7x12	.45
A5607	7x14	.53
A5608	7x16	.61
A5609	7x18	.65
A5610	7x21	.78
A5611	7x24	.89
A5612	7x30	1.12
A5613	36x36	5.29

Cut to Size

We can supply electralloy panels cut to any size, at 1c per square inch. Minimum order 95c

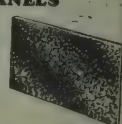
Aluminum

Hard-tempered, commercially pure aluminum sheets. Have bright silver finish. Very popular with set-builders and Amateurs. Durable and attractive. No. 16 gauge about 1/16 in. thick.

No.	Size	EACH
A5635	7x10	$0.48
A5636	7x12	.59
A5637	7x14	.69
A5638	7x16	.82
A5639	7x18	.92
A5640	7x21	1.03
A5641	7x24	1.15
A5642	7x30	1.42
A5643	24x36	5.80

CUT TO SIZE
About 1/16 inch thick. Per Square Foot 95c
[Minimum order, 95c]

FINISHED METAL PANELS



Heavy gauge cold rolled sheet steel finished on both sides in beautiful black crackle. Popular sizes to go with chassis bases listed above.

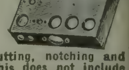
No.	Size	EACH
A5645	7"x10"	38c
A5646	7"x12"	44c
A5647	7"x14"	51c
A5648	8"x18"	56c

BAKELITE TUBING

High grade smooth polished bakelite tubing. Natural finish. Excellent insulating properties and high dielectric strength. Has 1/16 inch wall. Listing below gives inside diameter.

Dia.	1 Ft. Lengths No.	NET	3 In. Lengths No.	NET	Per Inch No.	NET
1 in.	A6471	34c	A6465	9c	A6165	3c
1½ in.	A6472	45c	A6466	12c	A6166	4c
2 in.	A6473	55c	A6467	14c	A6167	5c
2½ in.	A6474	63c	A6468	16c	A6168	6c
3 in.	A6475	74c	A6469	19c	A6169	7c
3½ in.	A6476	80c	A6470	22c	A6170	8c

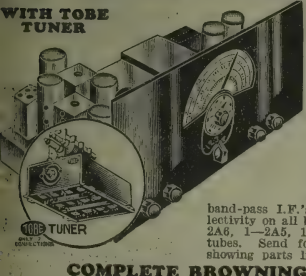
CHASSIS SERVICE



A new ALLIED service for set-builders. We will form and punch any chassis to your specifications. Charges are as follows: Drilling small holes up to ½"—20c per dozen; holes over ½" to 1⅜" inclusive—10c each; holes larger than 1⅜" or cutouts of special design are priced slightly higher. Transformer cutouts, 25c each; cutting, notching and forming chassis, 35c. Minimum charge is 95c. This does not include the chassis base (or metal for it). Blank chassis bases, or sheet Electralloy and Aluminum are listed on this page. Send scale drawing with dimensions and hole sizes clearly marked. Chassis bases are made up on final sales basis only; deposit of 95c must accompany order.

LATEST RECEIVER KITS

POPULAR BROWNING 35 ALL-WAVE RADIO KIT



An easy-to-build All-Wave Kit for discriminating S.W. fans. Includes the completely assembled, wired and tested Tobe tuning unit. Tunes 13.3 to 550 meters continuously in 4 full bands with no skips. Sensitivity and selectivity are extremely high. Has 40 to 1 ratio micro-vernier dial calibrated in megacycles; with separate scale for vernier calibration. Built-in preselection and double band-pass I.F.'s provide unexcelled selectivity on all bands. Uses 1—2A7, 1—2A6, 1—2A5, 1—56, 2—58, and 1—80 tubes. Send for FREE CIRCULAR showing parts list and wiring diagram.

COMPLETE BROWNING 35 KIT

Contains all necessary parts for the complete receiver except tubes, speaker, and cabinet. Includes: drilled and finished chassis and panel, complete Tobe tuner unit, I.F. transformers, condensers, resistors, wiring diagrams, detailed instruction book, etc. Nothing else to buy except tubes and speaker.

A10230. YOUR PRICE **$39.90**

A10231. Browning Kit as above, but metal tube model. Requires 1—6A8, 2—6K7, 1—6C5, 1—6F5, 1—6H6, 1—6F6 and 1—80 tubes. NET **$41.65**

TOBE 35 TUNER UNIT

Completely assembled, wired, tested and aligned All-Wave tuner unit; two color bakelite dial, dial cards, pointers, escutcheons, dial light, bracket, grommets, etc.

A10232. YOUR PRICE **$18.60**

BASIC UNIT KIT

Contains drilled and finished chassis and panels, 2—I.F. transformers, Beat Oscillator, power transformer, 5 full-size wiring diagrams and instruction book with detailed construction data.

A10234. YOUR PRICE **$11.60**

A9618. Wright-De Coster 10" Dynamic speaker **$4.10**

A10233. Black Damaskene Metal Cabinet. 17½x9¾x11½" ... **$4.80**

TOBE AMATEUR RECEIVER KIT

Designed exclusively for Amateur Band operation and for adjacent channels. Based on, and very similar to the Browning 35. All critical circuits air-trimmed for extreme stability. Features exceptionally wide bandspread on the Amateur 160, 80, 40 and 20 meter bands; fractional microvolt sensitivity; extreme selectivity; I.F. gain control; AVC (on or off); single tuning control; adjustable pitch Beat Oscillator; stand-by switch, and many other outstanding features. Kit contains all parts necessary with exception of tubes, speaker and cabinet; with complete instructional data. FREE PARTS LIST ON REQUEST.

A10235. COMPLETE KIT, YOUR PRICE **$47.40**

CATHODE RAY TUNING UNIT

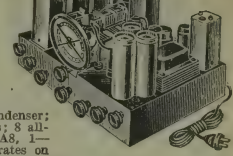
An inexpensive visual tuning indicator using the new Electron-Ray tube. Quickly and easily installed in any Broadcast, All-Wave, or Short Wave set having AVC, but which is not equipped with visual tuning device. Requires 6.3 or 2.5 volts for filament. Complete assembly with color-coded cable and instructions, less tube.

A1987. NET **73c**

A404. Raytheon 6E5 Cathode Ray tube. For receivers using 3 volt tubes. NET **77c**

A411. Raytheon 2E5 Cathode Ray tube. For receivers using 5 volt tubes. NET **77c**

MEISSNER ALL-WAVE 8 METAL TUBE KIT



A brand new All-Wave receiver kit with every modern feature. Easy to build; you need only a screwdriver, pliers and a soldering iron. Comes to you with all coils, condensers and trimmers completely assembled and factory balanced. Features: Continuous tuning range from 540 K.C. to 25 M.C. (15 to 550 meters) in 4 bands; iron-core I.F. transformers; micromatic electrical band-spread; calibrated tuning dial; beat oscillator; automatic volume control; preselector stage; 3 gang condenser; sensitivity, tone and volume controls; 8 all-metal tubes: 1—6C5, 2—6K7, 1—6A8, 1—6H6, 1—6F6, 1—6F5, 1—5Z4. Operates on 110 volts, 50-60 cycles.

COMPLETE KIT OF PARTS

Consists of: Foundation Unit (described below), coil and condenser kit, and all necessary resistors, condensers, switches, sockets, wire, hardware, diagrams, etc., for the complete construction of the Meissner All-Wave Metal Tube Receiver. Less only tubes and speaker.

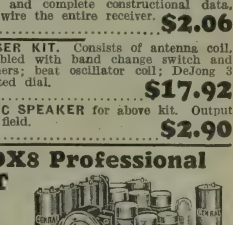
A10320. YOUR PRICE **$32.45**

A10321. FOUNDATION UNIT. Consists of drilled and punched chassis base, finished front panel, and complete constructional data, which shows how to assemble and wire the entire receiver. NET **$2.06**

A10322. COIL AND CONDENSER KIT. Consists of antenna coil, RF coil and oscillator coil, assembled with band change switch and aligned; 2 iron-core I.F. transformers; beat oscillator coil; DeJong 3 gang tuning condenser with calibrated dial. NET **$17.92**

A9599. KNIGHT 8½" DYNAMIC SPEAKER for above kit. Output transformer matches 6F6; 1000 ohm field. NET **$2.90**

Gen-Ral Super DX8 Professional SHORT WAVE KIT



A completely engineered professional type 8 Tube Short Wave Superhet, ready for construction. Tunes 17 to 200 meters (1.5 to 18 megacycles) in 4 bands. Features continuous Bandspread Tuning, Beat Oscillator for C.W. reception, Tuned R.F. stage, stand-by switch, manual or Automatic Volume Control, latest tubes, pi-wound I.F.'s, optional Crystal Filter, etc. Uses 2—58, 1—2A7, 1—2A6, 1—2A5, 2—56, 1—80 tubes. The Coil Kit is completely assembled, wired and aligned. Bandspread Condenser Unit and Airplane Dial are assembled. Send for detailed Parts List and Wiring Diagram.

COMPLETE KIT OF PARTS

Consists of Foundation Unit including drilled chassis base and finished front panel; assembled 4 band Short Wave Coil and Switching unit; assembled 3 gang condenser and dial unit; transformers, condensers, resistors, sockets, hardware, instructions, diagrams, etc. Less speaker and tubes.

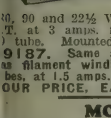
A10325. YOUR PRICE **$32.75**

A10321. FOUNDATION UNIT. Consists of drilled and punched chassis base, finished front panel and constructional data. NET **$2.06**

A10326. COIL AND CONDENSER KIT. Consists of assembled Gen-Ral 4 band short wave coil unit, with 2—I.F.'s, beat oscillator, and DeJong bandspread condenser. NET **$18.25**

A9598. Matched 8½" Dynamic speaker, with 4 ft. cord and plug. NET **$3.10**

LOW-PRICED PURE D.C. POWER PACKS



MODEL XPC

A9190. For Short Wave receivers or small transmitters using 2—45 tubes. Delivers 300 volts pure D.C. at 65 M.A., tapped at 30, 90 and 22½ Volts. Also supplies 2½ Volts C.T. at 3 amps. for filaments. Requires type 80 tube. Mounted on a sturdy steel chassis.

A9187. Same as above, except has filament winding for 6.3 volt tubes, at 1.5 amps. OUR PRICE, EACH **$5.25**

MODEL XC

A9191. An ideal power supply for low-power transmitters or for crystal or buffer stages. Delivers 300 Volts pure D.C., untapped, at 65 M.A., and 2½ Volts A.C. center-tapped at 4 amps. for filaments. Built on steel chassis. For 115 Volts, 60 cycles. Requires type 80 tube.

A9188. Same as above, except has filament winding for 6.3 volt tubes, at 1.5 amps. OUR PRICE, EACH **$4.25**

MODEL 0-1 POWER PACK

A power supply for the Amateur X-mitter using 3 or 4—210 tubes. 450 V. D.C. at 150 M.A. and 7½ V. C.T. at 5 A. Steel chassis, black crackle finish. Operates on 115 V. 60 cycles. Requires type 82 tube. Weight, 13 lbs.

A9196. YOUR PRICE **$7.95**

MODEL 00-1 POWER PACK

For use with Class "B" Modulators or X-mitters using 4—46 or similar type tubes. 450 V. D.C. at 150 M.A., and 2½ V. C.T. at 6 A. For 115 V. 60 cycles. Requires type 82 tube.

A9197. YOUR PRICE **$7.95**

POWER PACK FOR S. W. SETS

A9198. MODEL J. For Short Wave Receivers. Hum-free. Substantially and neatly built. Delivers 250 Volts D.C. at 40 M.A., tapped at 22½ and 90 volts; 2½ Volts C.T. at 3 amps. for filaments. Chassis size, 7½x4x1½ inches. Weighs 4 lbs. Requires one 80 tube.

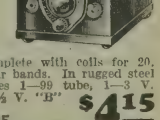
A9189. Same as above, except has filament winding for 6.3 volt tubes, at 2 amps. YOUR PRICE, EACH **$5.25**

RCA BEAT OSCILLATOR

Will enable you to listen to code signals or tune in weak signals on any broadcast or S.W. Superhet. Requires 1—58, or 1—6D6 tube. Range 415-700 K.C. 7"x2¾"x7".

A7617. NET **$7.50**

LISTENING MONITOR



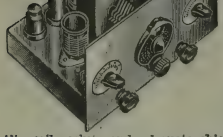
A compact, well-built unit for amateur use; useful for station monitoring, checking quality of emitted signal or phone carrier, or for frequency drift check. (Not a receiver.) Furnished complete with coils for 20, 40 and 80 meter amateur bands. In rugged steel case, 5x7x10". Requires 1—99 tube, 1—3 V. "C" battery and 1—22½ V. "B" battery (not supplied).

A9193. YOUR PRICE **$4.15**

Latest "BUILD YOUR OWN" Kits

KNIGHT SUPER-GAINER S.W. KIT

With 4 Metal Tubes



An extremely efficient, easy-to-build four tube short-wave receiver. Latest design, improved circuit uses 4 all-metal tubes to give 7 tube performance. Exceptional sensitivity and selectivity results from the use of regeneration in the first and second detector stages; single-signal action on C.W. signals. The new 6L7 mixer tube, with special injector grid, allows absolute decoupling between oscillator and first detector, besides providing an extreme broadcast in sensitivity. Features: Bandspread tuning, dual regeneration control, iron core I.F. transformer, Isolantite coil sockets and adequate shielding. Low current drain allows the use of either batteries or the special A.C. power supply listed below. Complete kit includes punched chassis base and front panel, special shield, tube and coil sockets, resistors, condensers, hardware, complete diagrams and instruction, etc. Requires 1—6L7, 1—6C5, 1—6F3 and 1—6F6.

A9505. Complete kit of parts with 80 meter coils, less tubes. NET..... $14.50

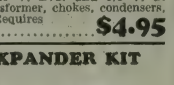
A9506. SET OF COILS. 8 coils, to cover the 10, 20, 40 and 160 meter bands, with adequate overlap for short wave broadcast band coverage. **NET..... $3.40**

A. C. POWER SUPPLY FOR SUPER-GAINER

A9507. Complete kit of parts. Output 240 V. D.C. and 6.3 V. at 1.6 A. Kit includes punched chassis base, transformer, chokes, condensers, sockets, cable, diagrams, instructions, etc. Requires 1—80 tube (not supplied). **NET..... $4.95**

NEW KNIGHT VOLUME EXPANDER KIT

A sensational new device for giving back to your loudspeaker all the fine points of music originally broadcast by the orchestra at the studio. True reproduction can be realized and depth can be recreated because the volume expander serves to further amplify fortissimo passages and make the pianissimos softer. Easily attached to any radio set or amplifier. The degree of expansion is controllable. Complete kit includes all necessary components for building. Uses 1—6L7, 2—76's and 1—80 tube not supplied.



A9508. Complete kit, less tubes. YOUR PRICE $7.95

MEISSNER NEW 14 TUBE ALL-WAVE KIT

- 5 WAVE BANDS—3.8 TO 555 METERS
- ACCURATELY BALANCED AND ALIGNED TUNING ASSEMBLY
- CALIBRATED 6 INCH AIR-PLANE DIAL, WITH MICRO-MASTER BAND SPREAD

A powerful 14 tube "Communications" receiver kit. Especially designed for Amateurs and set builders who want splendid results over all the bands. Starts at 5 meters and includes all the Amateur and broadcast bands. Some of the features are: Crystal Filter—Beat Frequency Oscillator with cut-out switch and pitch control—Noise Silenc Circuit—Variable Electrical Band Spread—Amplified A.V.C.-Variab Sensitivity Control—Iron Core I.F. Transformers—Audio Volume Contr —P. P. Beam Power Output Tubes, etc. The completely wired and ac curately balanced and aligned tuning assembly includes the Meissne Multi-Wave coil assembly, band change switch, variable gang condense tube sockets (for tuning unit) and a calibrated 6" aeroplane dial wit "Micromaster" mechanical bandspread. Set builders will find this a ideal set to install in their customers' expensive consoles. Uses 14 mgt tubes: 3—6K7, 2—6J7, 2—6L7, 1—6R7, 1—6C5, 2—6H6, 2—6L6, 1—6Z

COMPLETE KIT OF PARTS

Includes punched and drilled black crackle-finished chassis base, a necessary condensers, resistors, switches, sockets, plugs, transformers an hardware. The only tools you need are a screw-driver, soldering iron an a pair of side-cutting pliers. Furnished with complete set of diagran and detailed instructions. Less only tubes and speaker.

A10237. YOUR PRICE $58.25

COIL AND VARIABLE CONDENSER KIT

Includes completely wired and aligned tuning units; Band switch; Cal brated 6" dial; Noise silencer I.F. coils; Beat-frequency Osc. coi Matched pair of crystal filter trans.; Iron-core I.F. output and pa expansion coils; 6 R.F. chokes; instruction sheets and diagrams.

A10238. YOUR PRICE $29.40

A10236. Punched and drilled Black Crackle chassis base. Siz 13"x17"x3". **NET $3.2**

KNIGHT 12 INCH DYNAMIC SPEAKER

A 12" Knight speaker especially selected to work with above set. Wi capably handle the output of the P. P. 6L6's. Equipped with 1250 ohm field coil, output transformer, cord and plug.

A10239. YOUR PRICE $4.55

LEADING "POPULAR MECHANICS" KITS

HURRICANE RECEIVER KIT NO. R-234

Described in the February, 1937, issue of Popular Mechanics magazine. An ideal receiver to have when power sources and communications systems fail. A dandy portable receiver for campers, Boy Scouts, tourists, etc., for getting news, weather reports and broadcasts when away from home. Requires no "B" batteries. Derives all its "A" and "B" power from any 6 volt battery; has a total drain of only one ampere. Will bring in Broadcast stations as far as 500 miles away with ordinary antenna. Non-critical antenna coupling permits the use of any length of antenna without seriously affecting the tuning of the set. Uses 2 of the new metal tubes, 6J7 and 6F6, in a highly efficient circuit. Two midget 3 volt batteries will run the set for about 12 hours. A storage battery will run for about 75 hours before requiring recharge. Supplied in kit form, complete with drilled 5"x6" panel, punched and drilled 5"x5" chassis base and all necessary parts and instructions for assembling.

A9614. Complete kit, less tubes and headphones. YOUR PRICE $4.35

"LITTLE GIANT" 4 TUBE AC-DC

Popular Mechanics No. R-220 Kit The 1936 model of the most popular tube set ever described in Popular Me chanics. Traveling men, tourists, stu dents, etc., will find this the ide companion set. Has excellent tone qualities coupled with distance-gettin ability. Simple and inexpensive t build and will operate from any li volt AC or DC supply. An entirely de pendable radio receiver.

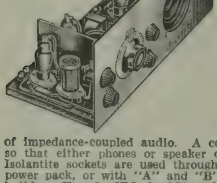
A POPULAR EFFICIENT SET

Anyone can build this highly efficient, portable AC-DC set with onl a few tools. Detailed easy-to-follow blue print shows both pictorial an schematic diagrams. Kit contains all necessary parts, speaker and in structions for construction of the improved Little Giant Receiver; less only tubes and cabinet.

A8913. R-220 KIT. Complete, less tubes and cabinet. YOUR PRICE $8.75

3 TUBE ALL-WAVE RECEIVER

TUNES 17—550 METERS



This set was described in Popular Mechanics Magazine for June, 1936. It has become one of the most popular models. Built on a simple breadboard, with built-in loudspeaker. Covers the regular broadcast band, all American and foreign short wave bands, airplane and police calls, etc. A stage of R.F. before detector helps a great deal in reaching out for those weak signals. 5 sets of Hammarlund coils cover from 17 to 550 meters. Coils are wound on low-loss coil forms. The detector stage is followed by a stage of impedance-coupled audio. A convenient twin tip jack is incorporated so that either phones or speaker can be used. Low-loss coil forms and Isolantite sockets are used throughout. May be used with external A.C. power pack, or with "A" and "B" batteries, whichever is desired by the builder. Uses 1—6D6, 1—6C6 and 1—38 tubes. Comes complete with all necessary parts, including panel cut and drilled for speaker but less tubes. With coils.

A9615. Complete kit, less tubes and batteries..... $20.55

TWO-WAY INTER-ROOM COMMUNICATION KIT

Popular Mechanics No. R-221 Kit. An efficient inexpensive inter-room communication system which saves time and effort. You merely push a button to talk and release it to listen to a person in another room. May be used between rooms and floors in homes and offices; suitable for paging and calling between store and stockroom, house and garage, etc. Compact and portable; easy to build. Two units are required, one at each point between which communication is desired.

SCORES OF USES

These easy-to-build two-way inter-room communication kit units op erate on 110 Volts, A.C. They each use 1—38 and 1—25Z5 tubes an incorporate a single button carbon microphone and 5 inch magneti speaker. Each kit unit includes all necessary parts, mike, speaker, etc less only tubes and cabinet. Cabinet pictured is priced below, or yo may build your own individual cabinet.

A8914. R-221 KIT for 1 unit only. (2 required.) Complete, less tubes and cabinet. YOUR PRICE $9.10

A8923. Cabinet only, as shown in illustration. NET..... $2.4

A3502. 4 conductor connecting cable. Per 10 ft. 32

TRANSCEIVER & SHORT WAVE KITS

NEW UNIVERSAL 5 METER HANDSET

Compact, lightweight combination earphone and microphone handset. Rugged and fully protected against rough handling. Highly polished molded bakelite case contains the special high output single button 200 ohm microphone with highly efficient sensitive receiver. Complete with 6 ft. 4 conductor cord with individual leads for microphone and receiver. Especially designed and developed for use with high-frequency transceivers.

A7569. With 2000 ohm receiver.
A7568. With 75 ohm receiver.
YOUR PRICE, EACH..... **$5.88**

5 METER TELESCOPING TRANSCEIVER ANTENNAS

Vertical type antennae for ultra H.F. use. Telescoping sections of hard aluminum tubing with force lock to hold adjustment. Ideal for mobile and portable use.

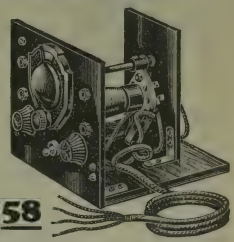
A9183. ¼ wave 4 section. Less base. End flattened for direct mounting. Extends to 52".
NET **$1.18**

A9184. ¼ wave 3 section. With base. Length closed, 18"; extends to 52".
NET **94c**

A9185. ½ wave 3 section. Less base. Binding post mounting. Extends to 102".
NET **$1.12**

A9186. ½ wave 3 section. With insulator base. Length closed, 36"; extends to 102".
NET **$1.32**

KNIGHT 5 METER TRANSCEIVERS
TWO-WAY 56-60 MC AMATEUR PHONE KITS



These popular Amateur 5 meter transceivers were designed by Frank C. Jones. Easy to build and operate; the range is entirely dependable. Ideal for local "horizon-range" communication and for experimental field work. Uses a single type 19 tube in an efficient push-pull unity-coupled oscillator circuit, grid modulated. For reception the same tube acts as push-pull super-regenerative detector. Simple quarter or half-wave rod may be used for the antenna. Complete diagram and parts list available at 5c to cover handling and mailing.

CHASSIS KIT OF PARTS

All necessary parts for building the chassis model illustrated above. Includes panels, baseboards, dial, condensers, resistors, isolantite socket, hardware, etc. Complete kit less tubes, batteries and handset.
A9656. YOUR PRICE..... **$5.58**

DE LUXE PORTABLE KIT

A complete kit of parts which includes everything necessary to build the Knight De Luxe Portable Transceiver. Contains all necessary resistors, condensers, panels, dials, cable, etc., including special split case as shown in illustration. Easy to build and operate. Accessories required are tube, batteries and handset listed below.
A9654. YOUR PRICE..... **$9.32**

TUBE AND BATTERIES

Consists of 1—Raytheon 19 tube, 2 Burgess 5308 portable "B's" and 2 Knight dry cells.
A9658. NET **$3.17**

PORTABLE CASE

Durable, leatherette covered split case for Knight transceiver. Bottom holds batteries; transceiver in top.
A9659. NET..... **$3.75**

UNIVERSAL HANDSET

New Universal 5 meter handset. Compact and lightweight. Illustrated and described at upper left.
A7569. NET..... **$5.88**

BATTERY-OPERATED

KNIGHT ONE TUBE ALL-WAVE KIT

The lowest priced all-wave kit on the market. Compact, yet sensitive and simple to build. A one tube battery operated receiver which brings in police signals, amateurs, broadcast stations and lots of distant stations. All terminals are color-coded and no wiring diagram is necessary. Has an attractive modernistic stained wood base and pedestal. Uses a type 30 low drain tube. Complete kit includes all parts, base, hardware, wire, 2 coils for 190 to 550 meters, earphone and clear instructions. Tube and batteries not supplied.

A9515. Kit of parts as described above.
YOUR PRICE..... **$4.74**

A9516. TUBE AND BATTERY KIT. Consists of: 2—1½ volt dry cells, 1—45 volt "B" battery and one Knight 30 tube.
YOUR NET PRICE..... **$1.64**

KIT OF S. W. COILS

A5565. Short-Wave coil kit for use with above set. 4 coils cover range from 16 to 217 meters.
NET **85c**

STANDARD 2 TUBE DX-ER KIT

Still one of the most popular low-priced kits for the short wave beginner. Operates from Dry Batteries. Described in "Popular Mechanics," "Short Wave Craft," and other leading radio magazines. Uses two type 30 tubes in an efficient regenerative circuit with one audio stage.

COMPLETE KIT OF PARTS

All parts for the DX-ER, including panel, baseboard, condensers, shielded transformer, etc., with complete wiring diagram. Coils, tubes, batteries and phones are extra and are listed below.
A9520. YOUR PRICE..... **$4.95**

PLUG-IN COILS

Set of 4 low-loss coils covering from 16 to 217 meters.
A5574. YOUR PRICE..... **$1.03**

ACCESSORIES

A9521. Consists of 2 Raytheon 30 tubes, 2—1½ volt dry cells and 2—45 volt B Batteries. NET..... **$2.95**

A2800. Brandes 2400 ohms headphones. YOUR PRICE..... **$1.59**

KNIGHT METAL TUBE DX-ER KIT

A.C. OR BATTERY OPERATED

An extremely efficient, easy-to-build receiver of modern, up-to-date design. Uses two metal tubes, 1—6J7 and 1—6C5. Features full band-spread tuning; electron-coupled detector; shielded chassis construction; ultra smooth regeneration control; non-critical antenna input. May be operated from batteries or A.C. power supply. Requires 6.3 volts at 1.5 A., 90 to 135 volts for plate supply. Special power supply available in kit form, listed below.

COMPLETE KIT OF PARTS

All necessary parts for building the Metal Tube DX-ER, including punched and drilled metal chassis and panel, sockets, condensers, resistors, wiring diagrams, etc., less only tubes, coils, batteries and headphones. **A9511.** NET..... **$6.70**

PLUG-IN COILS

Set of 4 plug-in coils for the Metal Tube DX-ER. 16 to 195 meters.
A9512. YOUR PRICE..... **$1.25**

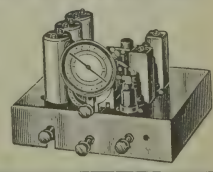
A. C. POWER SUPPLY

A9513. Complete kit of parts for the A.C. power supply. Contains punched chassis base, transformer, chokes, condensers, etc. Requires 1—1Y tube (not included). Output 100 V. D.C., 6.3 V. at 4 A.
NET **$5.50**

WORLD TIME CHART AND SHORT WAVE STATION LIST

Indicates time in 122 countries instantly. Lists 111 Short Wave stations. Valuable for the amateur and SW listener.
A5235. YOUR PRICE..... **10c**

KNIGHT METAL TUBE 6 VOLT All-Wave SUPER



A complete kit for building a highly efficient six tube all metal 6 Volt superheterodyne. Operates entirely from a 6 volt storage battery. Tunes from 15 to 545 meters. Coil assembly, complete with trimmer and padding condensers, is factory-assembled and aligned. Has four position band switch; iron core I.F. transformers for unusually high gain and exceptional selectivity. Requires 2—6K7, 1—6A8, 1—6Q7, 1—6F6 and 1—0Z4 tubes. Includes punched and drilled receiver and power supply chassis bases, all wave coil, switch assembly, resistors, condensers, complete diagrams, etc. Less tubes, speaker and vibrator.
A9514. Complete Kit.
NET **$23.75**
A4687. Electronic No. 470 Vibrator. NET..... $2.65

DIALS • PHOTO ELECTRIC CELLS

INSTRUMENT DIALS

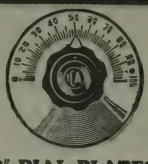
Chrome silver dials with grained satin finish and engraved black numerals and calibrations. Vernier grip knob for ¼" shaft. Reads 0-100. Complete with vernier marker.

2¾ INCH DIALS

A5733. 325 Degrees.
A5734. 180 Degrees.
NET EACH **71c**

4 INCH DIALS

A5735. 325 Degrees.
A5736. 180 Degrees.
YOUR PRICE, EACH.. **94c**



2" DIAL PLATES

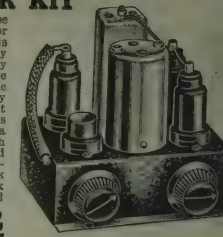
Handsome, professional dial plates finished in silver grain satin finish, with calibrations engraved in black. Calibrated 0 to 100. Fluted finger grip pointer knob fits all ¼" shafts. These plates lend a commercial appearance to your receiver, transmitter, etc. 325° style ideal for use on volume controls, on amplifiers, modulators, etc.

A5483. 180 Degrees.
A5484. 325 Degrees.
YOUR PRICE, EACH **52c**

NOISE SILENCER KIT

No longer need your reception be disturbed by static, motor noise or other forms of interference. This new noise silencer kit will effectively eliminate noises of practically every type. Signals unheard of before may be brought up to a comfortable level. Designed to work with any short wave or all-wave superhet having 465 or 456 KC I.F.'s, this noise silencer incorporates an extra I.F. stage. Supplied complete with all necessary parts, instructions and 1—6H6, 1—6J7, 1—6K7, and 1—6L7 RCA metal tubes. Black crinkle-finished base measures 5½"x 4"x2½", and has all holes cut and drilled.

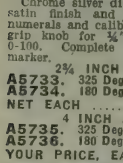
A8910. DE LUXE MODEL, YOUR PRICE..... **$7.92**



STANDARD MODEL KIT

A8909. Same as above, but without extra I.F. stage; designed f sets having two or more I.F. stages. Kit includes 1—6H6, 1—6J7 a 1—6L7 RCA metal tubes and full instructions. For sets with 456 to 465 KC. I.F. NET..... **$5.9**

CHROME SILVER DIAL PLATES & FLANGE KNOBS



Attractive grain satin finish. Have black Etcho-Engraved numerals and calibrations on chrome silver. Dial plate reads 0-100. Supplied with Finger Grip flange knobs for ¼" shafts.

3¼ INCH DIAL PLATE

A5737. 180 Degrees.
A5738. 325 Degrees.
NET EACH **74c**

4 INCH DIAL PLATE

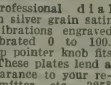
A5739. 180 Degrees.
A5740. 325 Degrees.
NET EACH **91c**

DIAL PLATES ONLY

Above plates less knobs.

No.	Dia.	NET
180 DEGREES		
A5741	2"	28c
A5742	3½"	42c
A5743	4"	48c
325 DEGREES		
A5744	2"	28c
A5745	3½"	42c
A5746	4"	48c

NAVY KEY KNOBS



Molded of black Insuloid. For easy keying. ⅝" high; 1⅝" dia. of lower skirt. 8-32 screw.

A5535. NET EACH..... **7c**

ETCHED METAL NAME PLATES

STANDARD SIZE

High quality name plates designed to give your equipment a professional appearance. Made of brass with characters and borders chromium-plated; backgrounds are etched dull black. Available in 104 different markings, among which are the following: Microphone, Phono Input, Oscillator, Transmitter, 1st Buffer Grid, Power Amp. Plate, Antenna, Plate Voltage, Filament Voltage, Key, Rectifier, A.C. Input, Modulator Plate, Gain Control, Input, etc.

Write for free complete list of name plates available. Standard size plate is 1½x⅜ inches. This size is especially suited for Sound and Test Equipment. Furnished complete with self-tapping machine screws. SPECIFY MARKING DESIRED WHEN ORDERING.

A2885. NET EACH.. **6c**

DE LUXE SIZE

Similar in design and markings to above but larger—2½x½ inches. Especially designed for transmitters, etc. WRITE FOR COMPLETE LIST.

A2888. NET EACH... **10c**

EBY PHOTO CELL EQUIPMENT

PHOTO CELL

A new type of photo cell designed for long life and maximum sensitivity. Ideal for light-controlling circuits, and for general experimental purposes. Entire unit is shock-proof and moisture-proof. Unaffected by continuous exposure to lights of strong intensity, and will operate on voltages as high as 250 volts without damage to cell. Response curve covers visual spectrum, and extends far into infrared. Measures 1¼" dia., ⅝" high. Mounts in standard four prong socket.

A4032. NET..... **$2.94**

SENSITIVE RELAYS

Designed for direct, or for full or half-wave rectified current circuits, where the operating power is small. Ideal for photo cell equipment vacuum tube amplifier circuits, etc due to the low power necessary make contact. Sterling silver contacts carry 2.5 Amps. at 115 V. A.C. or 1.5 Amp. at 115 V. D.C.

A4045. 1000 ohm coil.
A4046. 2500 ohm coil.
A4047. 5000 ohm coil.
A4048. 10000 ohm coil.
NET EACH **$3.82**

ELECTRIC EYE HANDBOOK

A4033. 32 pages of new material pertinent to photo electric cells; gives hints and diagrams on adaptations of Electric Eye. Just the book for the experimenter or engineer. NET.. **50c**

EXPERIMENTAL KIT

Necessary parts for building various Electric Eye circuits. Includes the Eby Electric Eye; sensitive relay; tube and eye socket resistors, condensers, circuits and information.

A4049. NET **$8.82**

PHOTO CELL AND RELAY

An efficient light-controlled instrument with many valuable uses. Contains a sensitive photo-cell and quick acting relay. Can be used to actuate automatic door opening mechanisms, for grading and counting packages on production lines, for controlling lights, or for a host of other applications. Size 4"x4"x5". Suitable light source is listed below. With photo-cell. For 110 V., 60 cycles.

F4680. NET..... **$14.70**

LIGHT SOURCE FOR PHOTO CELL

A4681. A ruggedly built light source for use with the above or sim ilar photo-cell relay units. Operates from 110 Volt 60 cycle supply. Uses standard 6-8 volt 32 C.P. auto bulb. Light beam is focused by means of movable brass tube fitted with high grade optic lens. Size 2¾" square, 5⅝" high. With bulb. NET..... **$5.88**

VERNIER DIAL MARKERS

Attractive dial markers for accurate tuning. Chrome silver with grained satin finish. Simple to mount on all panels; supplied complete with mounting screw.

Cat. No.	Dial Size	Degrees	NET EACH
A5747	2¾"	325	15c
A5748	2¾"	180	
A5749	4"	325	
A5732	4"	180	

FINGER GRIP KNOBS

Molded of black bakelite; for ¼ inch shaft. Attractive, professional appearance. Fluted rim gives positive grip for delicate adjustment. Supplied with flange, with pointer, or plain.

WITH POINTER

A5475. 1⅛". Fig. A. EACH **23c**
A5476. 1⅝". Fig. A. EACH **28c**
A5477. 2⅜". Fig. A. EACH **34c**

WITH FLANGE

A5478. 2 1/16". Fig. B. EACH **28c**
A5479. 3". Fig. B. EACH **37c**

LESS POINTER

Similar to Fig. A, but less pointer.

A5480. 1⅛". PRICE EACH **17c**
A5481. 1⅝". PRICE EACH **23c**
A5482. 2⅜". PRICE EACH **28c**

TRIPLETT THERMO-COUPLE AMMETERS

Designed especially for high frequency work, these instruments are accurate to within 2%. Ideal for use in amateur transmitters or wherever currents of radio frequencies must be measured. External couples will stand 50% overloads and are easily replaceable. Moulded bakelite case, flange mounting type, 2½" size.

MODEL 341

No.	Amp.	List	NET EACH
A8890	0-1	$10.00	$6.53
A8891	0-1.5	10.00	
A8892	0-2.5	10.00	
A8893	0-5	10.00	

PHOTO-ELECTRIC CELLS

CETRON CE-3

A1070. A quality photo-electric cell suitable for a variety of applications. May be used to replace W.E. type for sound film work. Connections are made by means of leads with phone tips. Cathode plate is 1⅜ sq. in. Requires an average ionizing voltage of 135 V.

CE-1 CELL

A1071. For replacement in such equipment as Acme Simplex, Edco, Moviola, RCA Photophone, Powers, etc. 4 prong plug-in type base. 1⅜x2" high, with cathode area of .94".

CE-2 CELL

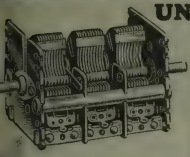
A1072. A shorter, wider cell, with cathode area of 1.23". For use with Argus, Bestone, DeVry, Full Range, Pacent, and Universal type projection equipment. Height, 2⅞". 4 prong base.

YOUR PRICE EACH..... **$5.40**

FOR ADDITIONAL KNOBS & DIALS SEE PAGES 130-131

VARIABLE CONDENSERS & CHOKES

UNIVERSAL PRECISION GANG CONDENSERS



A tuning condenser of truly universal application. Has ¼" shaft extending out from both ends. Clockwise or counter-clockwise application in a single unit; solid, bar type construction; front and rear ball-race bearings; high end plates; high-grade low-loss bakelite insulation; rotor grounding springs for each section. Holes are provided at front, rear and bottom, for bracket or spade bolt mounting.

Trimmers may be placed on either side, or may be removed entirely. Solidly and carefully constructed to maintain accuracy. ¼" shaft can be increased to ⅜" by using A2007 bushing on page 106.

CLOCKWISE OR COUNTER-CLOCKWISE IN ONE UNIT!

These universal condensers solve every replacement or original gang condenser problem. Easy ganging of 2 or more 2 or 3 gang units for obtaining 4, 5, 6 or more ganged sections. Either end may be used as front, providing either clockwise or counter-clockwise rotation in a single unit. Standard end plates for complete alignment of all circuits. Two styles: TRF type, all sections alike, for TRF or padded osc. circuits, and superhet type, with special cut section for unpadded oscillators. High end shields measure 2¾"x3¼".

370 MMF.—2 GANG
A2550. TRF.
A2552. 456 KC.
NET EACH **$1.03**

370 MMF.—3 GANG
A2556. TRF.
A2557. 175 KC.
A2558. 456 KC.
$1.52

420 MMF.—2 GANG
A2553. TRF.
NET EACH **$1.12**

420 MMF.—3 GANG
A2559. TRF.
NET EACH **$1.65**

MIDGET TRANSMITTING CONDENSERS

Perfectly suited for use in tank circuits in low and medium power transmitter stages. Solidly built; extremely compact; highly efficient at all frequencies. Genuine Isolantite insulation; smooth operating phosphor bronze contact springs. Have ¼" shaft, and mounting brackets.

CAT. NO.	Max. Cap.	Min. cap.	Air Gap	Pk. Volts	NET
A1900	35	9	.095"	2000	$1.18
A1901	50	11	.095"	2000	1.47
A1902	75	14	.095"	2000	1.76
A1903	100	10	.060"	1250	1.76

USL MIDGET CONDENSERS

A small, well-built condenser, ideal for Short Wave use. ¼" shaft extends ⅞" from front of condenser. 5/16" bushing allows rigid mounting on panels up to ⅝" thick. Single hole mount; fits ⅜" hole. Overall size with plates open, 1⅝"x1½". Attractively priced, high quality units.

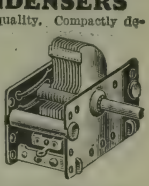
No.	Plates	Min. Mmf.	Max. Mmf.	NET	No.	Plates	Min. Mmf.	Max. Mmf.	NET
A4125	3	3	15	35c	A4132	12	6	80	47c
A4126	5	4	30	38c	A4129	15	7	100	48c
A4127	7	5	45	41c	A4133	18	8	125	53c
A4128	9	6	60	44c	A4130	20	8	140	57c

DOUBLE SPACED MIDGETS

A4123	11	6	35	58c	A4124	14	7	50	79c

PRECISION SINGLE CONDENSERS

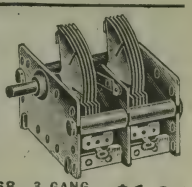
General purpose single unit condensers of high quality. Compactly designed; new bar-type construction gives extreme rigidity. Precision-built to maintain accuracy; bakelite insulation assures low-loss. Ball-race front bearing gives smooth operation with no binding. Bronze contact spring maintains steady, quiet contact with rotor. ¼" shaft, 1⅝" long. Measure 3¼"x1⅜", 1⅝" deep. Clockwise; condenser closes to the right.



No.	Cap. Mmf.	NET EACH
A4115	100	67c
A4116	150	
A4114	240	
A4117	370	
A4118	450	

PRECISION 150 MMF. GANG CONDENSERS

Compact condenser assemblies designed especially for short wave use. Special bakelite insulation reduces loss to a minimum. Of new, advanced design; solid bar construction assures the utmost rigidity. Slotted end plates allow easy, critical alignment. Ball-race bearings provide smooth, frictionless trimmers. Trimmers mounted on long side; may be easily moved to other side, or removed altogether. End shields measure 3¼"x1⅞".



A2567. 2 GANG. YOUR PRICE **85c**

A2568. 3 GANG. YOUR PRICE **$1.25**

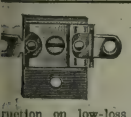
DE-JONG BAND-SPREAD CONDENSERS WITH AIRPLANE DIAL

New band-spread tuning unit with one dial control. Main condenser drives one pointer; other pointer is driven by band-spread condenser section. One knob controls both actions at will. 4" airplane dial is calibrated 0-100 on top scale and 0-10 on bottom scale.

No.	Gangs	MMF.	NET
A2700	2	270	$6.17
A2702	2	140	
A2701	3	370	$6.90
A2703	3	140	

A2704. 3 gang, 420 mmf. Dial is specially calibrated for Gen-Ral Kit on page 123. NET **$6.90**

TRIMMER CONDENSER



A new small-size trimmer condenser, ideal for balancing, trimming, neutralizing, antenna coupling, etc. Of sturdy construction on low-loss bakelite base measuring 1⅛"x¾"x1 1/16". Full-plate type, with high-grade mica dielectric. 5-35 mmf.

A2949. NET **6c**

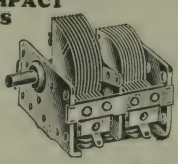
Lots of 10 ..... **50c**

TRIMMER AND PADDING CONDENSERS

For HF, IF, and Oscillator circuits. First quality mica-insulated; Isolantite base. Screw driver adjustment. May be shunted by fixed mica condensers to increase maximum capacity. Solder lug type connectors; fits in small space or coil form.

No.	Cap. Mmf.	NET
A7890	10-70	6c
A7891	30-160	9c
A7892	60-300	22c
A6499	120-475	24c
A6498	620-1120	42c

KNIGHT COMPACT CONDENSERS



New, easy-to-mount compact condenser assemblies of superior design and precise construction. Trimmers are mounted on both sides. Plates slotted for accurate alignment. Maximum capacity, 370 MMF. Clockwise rotation. Available for either TRF and padded oscillator circuits, or with specially cut section for tracking unpadded oscillators. ¼" shaft extends 1½". End shields measure 2⅜"x1¼".

TWO GANG
A2562. TRF.
A2563. 456 K.C.
YOUR NET PRICE **84c**

THREE GANG
A2564. TRF.
A2565. 456 K.C.
YOUR NET PRICE **$1.23**

CONDENSER COUPLINGS

Insulated flexible shaft coupling. Permits tandem operation of condensers, etc. Bakelite insulation. For ¼" shafts.

A2615. NET **21c**

DUAL TRIMMERS

Latest development in trimmer design. May be used in any IF, oscillator, or similar circuit. Extremely small; may be mounted in tight places. Best mica dielectric and precise tuning adjustment give unequaled performance.

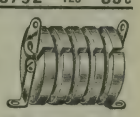
No.	Cap. Mmf. Each Section	NET
A6490	20-90	26c
A6491	50-180	29c
A6492	100-300	35c
A6493	170-410	41c
A6494	200-600	47c
A6495	300-675	53c
A6496	325-850	65c

Iron-Core R.F. Chokes

New High-Q RF chokes; may be used in place of air-core chokes for higher efficiency. Provide greater gain and selectivity in either tuned or untuned plate load circuits.

No.	MH	NET	No.	MH	NET
A5785	2½	34c	A5789	30	50c
A5786	3½	34c	A5790	60	57c
A5787	5½	37c	A5791	80	65c
A5788	10	43c	A5792	125	85c

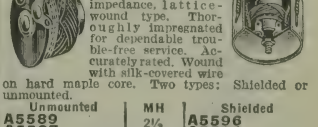
POLARIZED R.F. CHOKES



A new efficient, popular priced R.F. choke of the sectionalized winding type. Thoroughly impregnated to minimize effects of moisture.

A2640	80 M.H.	SPECIAL NET EACH
A2641	60 M.H.	
A2642	30 M.H.	
A2643	10 M.H.	
A2644	5.5 M.H.	
A2645	3.4 M.H.	
A2646	2.5 M.H.	21c

RADIO FREQUENCY CHOKES



Compact, easy-to-mount R.F. chokes of high quality. High impedance, lattice-wound type. Thoroughly impregnated for dependable trouble-free service. Accurately rated. Wound with silk-covered wire on hard maple core. Two types: Shielded or unmounted.

Unmounted	MH	Shielded
A5589 A5587 A6400 EACH..... 15c	2½ 5½ 6	A5596 A5594 A5571 EACH..... 26c
A6401 A6402 EACH..... 21c	8 16	A5572 A5573 EACH..... 29c
A5584 EACH..... 29c	30	A5591 EACH..... 42c
A5585 A5583 EACH..... 39c	60 80	A5592 A5590 EACH..... 49c

NEW COILS FOR ALL PURPOSES

IRON CORE I.F. TRANSFORMERS

A new development in IF transformers. The use of a finely powdered iron core, with each iron particle insulated from the others, results in a much higher "Q" than was heretofore possible. Gain and selectivity approximately double that obtained with air cores. Ideal for replacements and set building. Double-tuned from top. Instructions included. Cans measure 1⅝" square x 3½" high. Mica insulated trimmers.

INPUTS

		NET EACH
A5800.	175 KC.	$1.15
A5801.	262 KC.	
A5802.	370 KC.	
A5803.	456 KC.	
A5812.	3000 KC.	

OUTPUTS

		NET EACH
A5804.	175 KC.	$1.15
A5805.	262 KC.	
A5806.	370 KC.	
A5807.	456 KC.	
A5813.	3000 KC.	

CENTER-TAPPED OUTPUTS

A5837.	175 KC.	EACH $1.15
A5838.	456 KC.	

STANDARD I.F. TRANSFORMERS

Standard high gain IF transformers of superior design. Ideal for replacements and new set building. Lattice wound primary and secondary tuned by mica insulated compression type condensers from top of can. RMA color-coded leads. Aluminum cans measure 1⅝" square x 3½" high.

DOUBLE TUNED INPUTS

		NET EACH
A5815.	175 KC.	73c
A5816.	262 KC.	
A5817.	370 KC.	
A5818.	456 KC.	
A5823.	3000 KC.	

DOUBLE TUNED OUTPUTS

		NET EACH
A5819.	175 KC.	73c
A5820.	262 KC.	
A5821.	370 KC.	
A5822.	456 KC.	
A5824.	3000 KC.	

CENTER-TAPPED OUTPUTS

A5840.	175 KC.	EACH 73c
A5841.	456 KC.	

HIGH GAIN THREE PI I.F. TRANSFORMERS

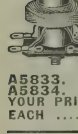
New type IF transformers with three pi windings on primary and secondary. Exceptionally high gain. For best results, only one should be used in a receiver. Double-tuned. Cans measure 1⅝x1⅝x3½". Color-coded leads.

INPUTS

		NET EACH
A5808.	370 KC.	79c
A5809.	456 KC.	

OUTPUTS

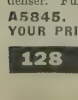
		NET EACH
A5810.	370 KC.	79c
A5811.	456 KC.	



Pentagrid Oscillator

A compact unshielded oscillator coil particularly designed for the new Pentagrid tubes. Single hole mount. For use with 370 mmf. TRF tuning condenser.

A5833. 175 KC. (Use 1125 mmf. pad cond.)
A5834. 456 KC. (Use 425 mmf. pad cond.)
YOUR PRICE EACH 39c



Adjustable Replacement Iron Core Antenna Coil

Will replace burned-out antenna coil in any standard Broadcast receiver. Inductance is variable by top adjustment. Will track perfectly with all other stages; setting remains permanent once set. For 370 mmf. condenser. Fully shielded. Size 1¾x1¾x2".

A5845.
YOUR PRICE $1.15

NEW MEISSNER AIR-TUNED IRON CORE I.F. TRANSFORMERS

A new line of IF transformers having iron cores for greatly increasing gain, sensitivity and selectivity. Tuned with air-dielectric condensers for stability. Once the transformer is tuned, it will hold its setting regardless of change in temperature or humidity. Ideal for use wherever exceptional stability is desired. Size 2x2x4¾.

INPUTS

		NET EACH
A5680.	175 KC.	$2.65
A5681.	262 KC.	
A5682.	370 KC.	
A5683.	455 KC.	
A5684.	3000 KC.	

OUTPUTS

		NET EACH
A5685.	175 KC.	$2.65
A5686.	262 KC.	
A5687.	370 KC.	
A5688.	456 KC.	
A5689.	3000 KC.	

NOISE SILENCER I.F. TRANSFORMERS

A close-coupled IF transformer, single tuned, with center-tapped secondary, especially designed for use in the currently popular new noise silencer circuits.

		NET EACH
A5690.	175 KC.	88c
A5691.	262 KC.	
A5692.	370 KC.	
A5693.	456 KC.	
A5694.	3000 KC.	

NEW MILLER COILS

VARIABLE SELECTIVITY I.F. TRANSFORMERS

Especially designed to meet the demand for a transformer capable of providing a high degree of selectivity for DX, and a broad band for high fidelity reception. Simple electrical method for varying selectivity eliminates mechanical movements. Available with iron or air cores.

IRON CORE

A6580.	175 KC.	EACH $1.47
A6581.	456 KC.	

AIR CORE

A6582.	175 KC.	EACH $1.18
A6583.	456 KC.	

IRON CORE R.F. COILS

Small size R.F. coils, especially desirable for use in auto or other sets where a high gain coil of small physical size is required. In shield cans measuring 1¼" dia. x 2" high. For use with 370 mmf. condenser.

A6584. Ant. coil }
A6585. R.F. coil } EACH 88c

A6586. Oscillator coil (465 KC.)
(Use 400 mmf. pad.) YOUR PRICE.....73c

NEW AC-DC COILS

HIGH GAIN MIDGET COILS

Unshielded coils particularly designed for the popular midget TRF receivers. Provide uniform high gain and sensitivity over entire broadcast band. Duo-laterally wound on ⅞" diameter forms; only 1½" long. For use with 370 mmf. condenser.

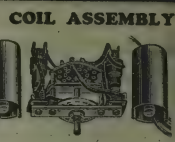
A6587. SET OF 2 COILS.
YOUR PRICE 71c

MIDGET SOLENOID COILS

Extremely efficient midget solenoid type coils, wound with enamelled wire on a special tubing. Ideal for replacement in midget TRF sets. Primaries are adjustable. Unshielded. Tapped coils enable amateur and police reception. For use with 370 mmf. condenser. 540 to 1600 KC.

A6588. SET OF 2 COILS.
YOUR PRICE 29c

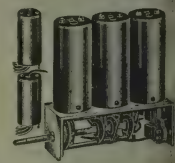
A6589. TAPPED FOR 2400 KC. 1—Antenna coil and 1—RF coil.
YOUR PRICE 35c



SKIP BAND COIL ASSEMBLY

Enables you to build a sensitive receiver tuning from 18 to 55 meters and 175 to 565 meters. Includes all important short-wave and standard broadcast bands. Coil assembly is completely wired and ready to install. Kit contains: 2 band antenna coil and 2 band oscillator coil mounted on a 2 position band-change switch; padding condenser mounted on assembly, 2 double tuned 456 KC IF transformers. Requires a 2 gang 370 mmf. tuning condenser. Diagram is included.

A2707.
YOUR PRICE $3.54



GEN-RAL COIL ASSEMBLY

Antenna, RF and Osc. coils, assembled and wired with 4 point wave-change switch, for building an All-Wave receiver. Tunes 15 to 545 meters in four bands with 370 mmf. 3 gang condenser. Includes 2—456 KC IF transformers and diagram.

A5190. COMPLETE KIT as described above.
YOUR PRICE $9.35

A5191. Less I.F. transformers.
YOUR PRICE $7.20

HIGH GAIN T.R.F. COILS

Bank wound with Litz wire, permitting unusual sensitivity and uniform gain over entire wave band. Round shielding can 2¼ in. high, 1⅞ in. diameter. Use with 370 mmf. condenser. Covers 1760 to 540 KC. Low impedance primaries.

A5828. ANTENNA COIL. Small but highly efficient.
A5829. R.F. COIL. Same size and mounting as above.
NET EACH 31c

A5830. 4 TUBE KIT. Contains 1 Ant. Coil and 1 R.F. Coil.
NET 60c

A5831. 5 TUBE KIT. Contains 1 Ant. Coil and 2 R.F. Coils.
NET 89c

(All kits include schematic diagrams.)

ANTENNA AND R.F. COILS

High gain fully shielded coils; for use with screen grid tubes. High impedance primaries. RF coil has primary at 90°. For 370 mmf. condenser. Antenna coil is illustrated. Equipped with coupling rings. Cans measure 2"x2"x3". Cover entire broadcast band.

A5825. Antenna Coil.
A5826. R.F. Coil.
NET EACH 55c

COMPOSITE OSCILLATORS

A compact, efficient combination oscillator assembly and 1st IF transformer, for use in circuits where first detector is also used as oscillator. Tunes from top. Measures 2x2x3". For use with 370 mmf. TRF type condenser. Diagram supplied to assure proper connections.

A5827. 175 KC.
A5836. 456 KC.
YOUR PRICE EACH..... $1.08

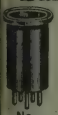
PRESELECTOR

A high-gain shielded band-pass preselector unit for the Broadcast band. Tunes 540-1700 KC with 370 mmf. condenser. Mounted in square aluminum can 2"x2"3".

A6835.
YOUR PRICE 64c

COILS · FORMS · COIL KITS

Bakelite Coil Forms



RIM TYPE FORMS

Smooth molded bakelite; low-loss, with high dielectric strength. Universally used. Moulded rim handle for easy grip. 1¼" diameter and 2 3/16" high. Fit standard tube sockets. Mechanically strong; electrically efficient.

No.	Prongs	
A1930	4	NET PRICE EACH..... **10c**
A1931	5	
A1932	6	
A1933	7M (.850)	NET PRICE EACH..... **18c**
A1934	7S (.750)	
A1935	8S	

RIBBED FORMS

Genuine molded bakelite; 1¾" diameter, 2¼" high. Have molded ribs for low-loss winding. Rim handles.

No.	Prongs	NET EACH
A5577	4	**14c**
A5578	5	
A5579	6	

LARGE LOW-LOSS RIBBED COIL FORMS

Well-designed plug-in coil forms of molded bakelite. Have eight-ribbed surface for low-loss coil windings. 1½" diameter with 2½" winding space. Rim molded on top for easy handling. Listed in four colors. Fit standard tube sockets. Easy to wind. Strongly built for long life and electrical efficiency.

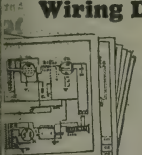
COLOR	4 PRONG	5 PRONG	6 PRONG
Black	A2625	A2630	A2635
Brown	A2626	A2631	A2636
Red	A2627	A2632	A2637
Green	A2628	A2633	A2638
NET EACH.....	**17c**	**19c**	**21c**

LIQUID COIL DOPE

Provides tough, moisture-proof film on RF coils, chokes, etc. Dries fast.

A1954. 2-oz. Can. NET **21c**

Wiring Diagrams



"BUILD-YOUR-OWN" KITS

Clear, easy-to-read diagrams with complete parts lists. Enable you to "build-your-own," using latest type tubes and modern efficient circuits. Carefully designed and capable of "factory built" performance.

A1721. 2 TUBE DX'ER SHORT WAVE BATTERY SET.
A1722. 2 METAL TUBE DX'ER. FOR BATTERIES OR A.C.
A1710. 4 TUBE A.C. BROADCAST TRF.
A1712. 4 TUBE A.C.-D.C. BROADCAST TRF.
A1714. 4 METAL TUBE "SUPER-GAINER."
A1713. 5 TUBE A.C. BROADCAST SUPER.
A1725. 5 TUBE SKIP-BAND A.C. SUPER.
A1711. 5 TUBE A.C. BROADCAST TRF.
A1720. 6 TUBE BROADCAST BATTERY SUPER.
A1726. 6 TUBE ALL-WAVE A.C. SUPER.
A1715. 6 METAL TUBE ALL-WAVE SUPER (6 VOLT BATTERY OPERATED).
A1708. 8 METAL TUBE ALL-WAVE SUPER.
A1709. 8 TUBE S.W. PROFESSIONAL A.C. SUPER.
A1723. KNIGHT 5 METER TRANSCEIVER.
A1718. 2 STATION INTER-OFFICE COMMUNICATION SYSTEM.
A1716. 3 TO 6 STATION INTER-OFFICE COMMUNICATION SYSTEM.
A1717. VOLUME EXPANDER FOR RADIO P.A. AMPLIFIER.
EACH DIAGRAM **5c**

(To cover handling and mailing cost.)

PLUG-IN COILS

Small, high efficiency, space-wound coils for Short-Wave receivers. For use with 140 mmf. condensers. Forms are smooth bakelite, 1¼" diameter and 2¼" high; rim-top for easy handling.

4 PRONGS—2 WINDINGS

A5565. Short Wave Coil Kit. 4 coils cover range from 16 to 217 meters.
List, $1.65. NET..... **85c**

A5566. Broadcast Coil Kit. 2 coils cover range from 190 to 550 meters.
List, $1.50. NET..... **78c**

A5567. Ultra Short Wave Coil. Covers range from 9.5 to 21 meters.
List, 65c. NET..... **35c**

5 PRONGS—2 WINDINGS

A5582. Short Wave Coil Kit. Four coils cover from 16 to 217 meters. Use with band-spread coils for general coverage.
NET **$1.08**

6 PRONGS—3 WINDINGS

A5568. Short Wave Coil Kit. Primary, secondary and tickler windings. Cover 16 to 200 meters. 4 coils in kit.
List, $2.50. NET..... **$1.35**

A5569. Broadcast Coil Kit. 2 coils cover 190 to 550 meters.
List, $1.85. NET..... **87c**

A5570. Ultra Short Wave Coil. Covers 9.5 to 21 meters.
List, 75c. NET..... **38c**

BAND-SPREAD COILS

5 prong coils complete with ceramic base band-setting condenser mounted on top. Spread crowded amateur bands over large part of dial. For use with 140 mmf. condenser.

No.	Meters	Range-MC	NET EACH
A1920	20	14.0-14.4	**50c**
A1921	40	7.0- 7.3	
A1922	80	3.5- 4.0	
A1923	160	1.7- 2.0	

A1924. Kit of 4 coils..... **$1.90**

Five prong band-spread coils for the crowded international short wave broadcast bands.

No.	Meters	Range-MC	NET EACH
A1925	19	15.1-15.4	**50c**
A1926	25	11.7-11.9	
A1927	31	9.5- 9.6	
A1928	49	5.95-6.16	

A1929. Kit of 4 coils..... **$1.90**

BAKELITE RIBBED TYPE

Genuine molded bakelite, 1¾" diameter and 2¼" high, with molded ribs for low-loss winding. With rim handles. Uniform precision-spaced windings for high efficiency. Fit standard sockets. For use with 140 mmf. condenser.

4 PRONGS—2 WINDINGS

A5574. Short Wave Coil Kit. Set of four coils covers range of 16 to 217 meters. Grid and tickler windings.
List, $1.90. NET..... **$1.03**

A5575. Broadcast Coil Kit. Set of 2 coils covers 190 to 550 meters.
List, $1.70. NET..... **84c**

A5576. Ultra Short Wave Coil. One coil covers 9.5 to 21 meters.
List, $0.75. NET..... **38c**

BAND-SWITCHING COILS

A new unit which gives complete coverage from 16 to 550 meters. No plugging-in; band changing easily accomplished by switching. Units are easily ganged by means of ¼" shaft. With 4 prong base for rapid mounting. Complete with pointer knob, dial plate and diagrams. For 140 mmf. condenser.

A5661. List, $4.25. NET..... **$2.50**

SUPERHET OSCILLATOR COILS

Serves as oscillator coil when used with the above unit acting as antenna coil; both form tuning unit for Superhet. 16 to 550 meters. For 456 KC I.F. With diagrams.

A5662. List, $4.25. NET..... **$2.50**

COMPLETE SUPERHET KIT

Kit consists of one each of above units, both ganged together and adjusted ready for use. For 456 KC I.F. With knob, dial plate and diagrams.

A5663. List, $7.50. NET..... **$4.40**

REPLACEMENT MAJESTIC I. F. TRANSFORMER COILS

Designed to replace the originals used in various Majestic receiver models. Will fit in original Majestic shield cans without change. Well-constructed; unaffected by climate. Thoroughly impregnated; moisture-proof. Wound of double-coated enameled wire on paper tubing. Coils are supplied less tuning condenser and can.

Cat. No.	Majestic Part No.	Model	NET EACH
A7150	4428	15, 15B, 150	$0.35
A7151	8384	15, 15B, 150	.40
A7155	4429	15, 15B, 150	.40
A7152	5326	25	.40
A7180	5327	25	.48
A7181	5601	25B	.40
A7182	5602	25B	.48
A7154	6506	55	.40
A7183	10589	66	.40
A7184	10591	66	.40
A7185	9361	116	.40
A7158	6250	200	.40
A7159	6254	200	.48
A7160	6119	210	.40
A7161	6123	210	.40
A7162	6127	210	.40
A7186	7821	390, 310, 330	.40
A7163	7812	390, 310, 330	.42
A7164	9094	360	.40
A7165	9669	400	.40
A7168	10149	460	.40
A7169	10253	800	.50
A7170	10843	500	.40
A7169	11014	800	.50
A7175	7187	Primary coil used as RF plate coil in Models 290, 300, 310, 330, 460, 520 and 800	.40

COIL ASSEMBLIES IN CANS

Exact Majestic replacement I.F. transformers mounted in shield cans and laboratory pretuned. No adjustment necessary.

Cat. No.	Majestic Part. No.	Model	NET EACH
A7190	4428	15, 15B, 150	$1.35
A7191	8384	15, 15B, 150	.88
A7192	8995	310A, 310B	.85
A7193	10149	460	.85
A7194	10843	500	1.25

We can supply other exact duplicate Majestic I.F. Transformers in cans complete with trimmer condensers. Write for prices, or order with deposit, stating model number of set, and part number of transformer.

We can supply exact duplicate, or adequate replacement coils for any set. When ordering state name, model and type of set, where coil is used, bands covered, condenser type, tubes used, etc. Cost depends on coil specs. Send old coil with $1.50 deposit for replacement or quotation.

DIMMER REACTOR TRANSFORMER FOR MAJESTIC

An exact duplicate of the original Majestic Part No. 7785, used in late model Majestic receivers as a resonance indicator. Fits chassis exactly.

A7104. List, $1.95. NET..... **85c**

THREE CIRCUIT TUNERS

Has primary, secondary, and variable tickler windings. Covers 200 to 570 meters using 350 or 500 mmf. condenser.

A1700. For 350 mmf.
A1701. For 500 mmf.
YOUR PRICE EACH **73c**

R.F. COILS TO MATCH

A1702. For 350 mmf. Condenser.
A1703. For 500 mmf. Condenser.
NET EACH **46c**

TAPPED FOR SHORT WAVE

New three circuit tuner and R.F. Coil as above, but tapped for S. W. reception with 350 mmf. Condenser.

A1704. Tuner. YOUR PRICE..... **78c**
A1705. R.F. Coil to match Tuner.
NET **48c**

KNOBS • DIALS • REMOTE CONTROLS

HIGH GRADE BAKELITE KNOBS

2 TONE KNOBS

ROUND TYPE

Two tone effect and well proportioned. Appropriate for most receiver designs. Smooth, polished finish. For ¼" shaft.

A6206. 1".
A6207. 1⅛".
10 Lots, 55c. EACH..... **6c**

OCTAGON TYPE

Modern octagon-shaped knobs in pleasing two-tone walnut and oak finish. Set screw type. For ¼" shaft. Two popular sizes.

A6209. 1 3/16".
A6210. 1⅝".
10 Lots, 55c.
EACH..... **6c**

PUSH-ON KNOB

Attractive bakelite knob for ¼ inch shafts. Push-on type. Excellent for volume controls, switches, etc. 1⅜" dia.

A2914. NET EACH..... **4c**
LOTS OF 10..... 30c

NEW OCTAGON KNOB

A handsome domed octagon knob of modern design in rich walnut finish. Will harmonize with practically any cabinet. Diameter, ⅞". For standard ¼" shaft. Set-screw type.

A2917.
Lots of 10, 40c.
YOUR PRICE EACH..... **5c**

POINTER KNOB

Attractive, tapered black bakelite knurled knob. ¼ in. bushing. White arrow pointer etched on face. 1½ in. base.

A6208.
NET EACH **5c**
LOTS OF 10..... 40c

MODERNISTIC TYPES

A6202. 1⅛" across including Pointer. ⅜" high. ¼" hole. Set screw in side.

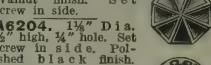
A6203. 1 1/16" Dia. ¼" hole, ½" high. Octagon Pyramid Top. Walnut finish. Set screw in side.

A6204. 1⅛" Dia. ½" high, ¼" hole. Set screw in side. Polished black finish. Fluted design, with white reference pointer on side.

A6205. 1⅜" Dia. ¼" hole. Octagon Flat Type. Walnut finish. Set screw in side. An attractive knob.

10 for 45c.
YOUR PRICE EACH **6c**

STREAMLINED BAR KNOBS



For test instruments. Give a professional appearance to any apparatus. With white pin-line indicator. Fit ¼ inch shafts. Black or brown finish.

A8646. Black, 1¼".
A8647. Brown, 1¼".
DOZ., $1.00.
YOUR PRICE EACH..... **9c**

A8648. Black, 2¼".
A8649. Brown, 2¼".
DOZ., $1.10.
YOUR PRICE EACH..... **10c**

ROUND TYPE SWITCH PLATES

Toggle-switch plates, finished in etched aluminum with black background. Dia. 1⅛".

A4106. "MI-CRO-PHONO."
A4107. "OFF-ON."
YOUR PRICE EACH..... **7c**

WALNUT AND MAPLE KNOBS

Genuine wood knobs, beautifully made and finished. For ¼" shafts. Brass bushing inset, with side set screw.

No.	Fig.	Width	Wood
A3765	A	⅞"	Walnut
A3766	B	⅞"	Maple
A3767	B	⅞"	Walnut
YOUR PRICE EACH ..... PER 10			**8c** / 70c
A3768	A	1"	Walnut
A3769	A	1¼	Walnut
A3770	B	1"	Maple
A3771	C	1"	Walnut
A3772	C (Plain Top)	1"	Walnut
A3763	D	1"	Walnut
A3764	D	1⅛"	Walnut
YOUR PRICE EACH ..... PER 10			**9c** / 76c

Fig. A

Fig. B

Fig. C

Fig. D

ETCHED METAL DIAL PLATES

Attractive black dial plates with etched aluminum figures. Suitable for use on amplifier panels, etc. Measure 2¼" high x 1 11/16" wide. For 300° rotation.

A4100. "Record." 0-10.
A4101. "Microphone." 0-10.
A4102. "Gain." 0-10.
A4103. "Tone." 0-10.
A4104. "Master Gain." 0-10.
A4105. Plain. 0-10.
YOUR PRICE EACH PLATE **12c**

DRUM TYPE DIAL

Smooth, positive-acting drum dial with translucent calibrated scale. Ratio 3¼ to 1. Fits ⅜" condenser shaft. With pilot light socket and escutcheon.

A4186. 0-100. Clockwise.
A4187. 100-0. Counter-clockwise.
NET EACH **98c**

KURZ KASCH VERNIER DIAL

Made of polished black bakelite. Universal scale reads 0-100-0. Has smooth, positive friction-drive vernier action; no back lash. Available in two sizes, both to fit ¼" shaft. Ideal for all equipment requiring a smooth, free-tuning panel-mount dial. Very easy to mount. 4 inch dial has tuning ratio of 13 to 1; 3 inch size has 9 to 1 ratio. Wt., either size, 4 oz.

A6201. 4 Inch Diam. NET..... **45c**
A6200. 3 Inch Diam. NET **38c**

GEAR REDUCTION UNIT

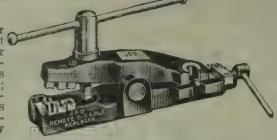
6 TO 1 RATIO

For use with any condenser not equipped with reduction gear. Has double-driven gear and anti-backlash spring. ¼" drive shaft.

A4111. For ¼" shaft.
A4108. For ⅜" shaft.
NET EACH **35c**

AUTO RADIO REMOTE CONTROL ACCESSORIES

"REMOTE-O-CABLE" REPLACER



Here is the solution to your Auto Radio Cable replacement jobs. Enables you to repair or replace worn cables or fittings without delay. Cuts cable or housing cleanly; swedges cable to prevent unraveling; removes or replaces fittings. No need to wait—get repair jobs out quickly and boost your service profits. A small stock of fittings, cable, cable housing, housing ends, and gear fittings, together with the Remote-O-Cable Replacer are all that is necessary. Wt., 23 lbs.

A10405. List, $47.50. YOUR PRICE..... **$37.24**

CONTROL CABLE AND HOUSING

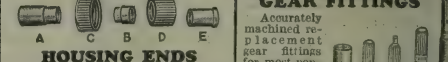
The same high-grade cable and cable-housing as used by leading auto-radio manufacturers. Flexible cable with swedged ends to prevent unraveling; .150 gauge. Housing is Parkerized to prevent rust.

CABLE ONLY

A1515. 18" long. NET...24c
A1516. 24" long. NET...29c
A1517. 30" long. NET...36c
A1518. 36" long. NET...42c
A1519. 25 Ft. Roll. NET $2.92
A1520. 50 Ft. Roll. NET 5.73
A1521. Cut lengths over 36 inches. Per Ft..... 16c

HOUSING ONLY

A1523. 18" long. NET...18c
A1524. 24" long. NET...24c
A1525. 30" long. NET...26c
A1526. 36" long. NET...31c
A1527. 25 Ft. Roll. NET $2.60
A1528. 50 Ft. Roll. NET 5.00
A1529. Cut lengths over 36 inches. Per Ft..... 12c



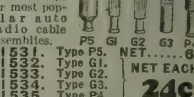
HOUSING ENDS

Exact duplicate, accurately made end fittings for cable housing. Fit perfectly.

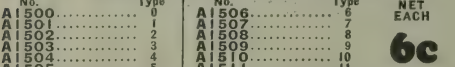
A1537. Type A.
A1538. Type B.
A1539. Type C.
A1540. Type D.
A1541. Type E.
YOUR PRICE EACH..... **6c**

GEAR FITTINGS

Accurately machined replacement gear fittings for most popular auto radio cable assemblies.



A1531. Type P5.
A1532. Type G1.
A1533. Type G2.
A1534. Type G3.
A1535. Type P4.
NET EACH..... 6c
NET EACH, **24c**



AUTO RADIO CABLE FITTINGS

Exact duplicate fittings as used in the majority of present day auto radios. Will enable you to repair any cable. When ordering, match old fittings with illustration and refer to type listed below for correct item.

No.	Type	No.	Type	NET EACH
A1500	0	A1506	6	**6c**
A1501	1	A1507	7	
A1502	2	A1508	8	
A1503	3	A1509	9	
A1504	4	A1510	10	
A1505	5	A1511	11	

We will assemble cables at right above in any lengths, with any fittings shown, at a net charge of $0.50 plus material costs as listed above. Specify exact length and fittings desired when ordering. Full remittance must accompany order.

ASSORTED FITTINGS AND GEARS

Handy assortment of cable fittings and gears. Sturdy metal box contains 120 pieces for repairs of cables for Philco, Motorola, R.C.A., Bosch, United Motors, Crosley, Arvin, Sparton, Stewart-Warner, Zenith and other auto radios.

A1513. List, $13.50.
YOUR PRICE **$7.84**

FOR COMPLETE INDEX SEE PAGES 135-136

AIRPLANE DIALS·PILOT LIGHTS·DIAL CABLES

GENUINE EVEREADY MAZDA PILOT LIGHT BULBS

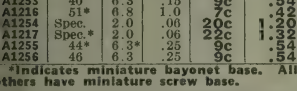
Genuine Eveready Mazda pilot light bulbs. Famous for quality and dependable long life. These lamps are made to operate from the voltages indicated. Excellent for all pilot lamp requirements. Will give long continuous service. Suitable for all standard radio sets and devices. Wt., 1 oz.

STOCK No.	Lamp No.	Volts	Amps.	PRICE EACH	PER 10
A1250	41	2.5	.50	9c	$0.54
A1215	43*	2.5	.50	10c	.60
A1251	42	3.2	.35	12c	.72
A1253	40	6.3	.15	9c	.54
A1216	51*	6.8	1.0	7c	.42
A1254	Spec.	2.0	.06	20c	1.20
A1217	Spec.*	2.0	.06	22c	1.32
A1255	44*	6.3*	.25	9c	.54
A1256	46	6.3	.25	9c	.54

*Indicates miniature bayonet base. All others have miniature screw base.

SPECIAL BULB FOR RCA-VICTOR RE32

S11. A 115 volt bulb with intermediate base; special for RCA-Victor RE32. 10 watt.
A6449. NET EACH..... **20c**



PILOT LIGHT SOCKETS

Pilot light sockets for all radio requirements. High quality construction. Carefully assembled with silver-plated lugs for easy soldering. Spring contact in the socket holds lamp firmly in place. Sockets may be mounted in different positions. Wt., 1 oz.

A6380. Type A.
A6381. Type B.
A6382. Type C.
A6378. Type D. Bayonet Shell Type.
A6379. Similar to type D, but mounting lug reversed.
10 Lots, 42c.
100 Lots, $3.70. NET EACH..... **5c**

JEWELLED PILOT LIGHT BRACKET

Has red jewel window. Lets you know when equipment is in operation. The socket mounted on the bracket takes regular pilot bulbs. Requires a single hole mounting. Ideal for use as indicators on power amplifiers, relay racks, test instruments, etc. Complete with jewel.
A6383. YOUR PRICE..... **16c**

JEWELS FOR PILOT LIGHTS

Attractive colored jewels with mounting nuts for panel use. Easy to mount on panels up to ⅛ inch thickness. Require ½" hole. Have ¼" threaded shank. ⅝" long.
A6384. Red.
A6385. Green.
A6386. Amber. EACH **10c**

DIAL LITE COLORING KIT

Easily applied transparent colors. For use on lot and dial light bulbs. Kit contains one bottle each: Green, Blue, Red and Brown; with bottle of solvent for cleaning bulbs.
A2998. NET PER KIT..... **29c**

BRAIDED SILK DIAL CORD

Durable dial cable of pure Japanese silk, with water-proof finish. Flexible, non-kinking. Easy to install.

No.	Length	NET
A6080	5 ft.	$0.22
A6081	25 ft.	.80
A6082	50 ft.	1.50
A6083	100 ft.	2.75

MODERN DIALS

3¼ INCH MODERNISTIC DIAL

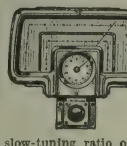
An attractive modernistic square type airplane dial with handsome bronze escutcheon. Positive non-slip friction drive. For ⅜" shaft, but supplied with ⅜" to ¼" reducer for use on condensers with ¼" shaft. Tuning ration of 10-1 assures sharp easy tunwise or counter-clockwise condenser. Complete ing. Universal scale for use with any clockwith two pilot light brackets. Shpg. wt., 1 lb.
A4180. NET EACH..... **97c**

5⅛ INCH AIRPLANE DIAL

A large strikingly handsome dial. Glass projected pyralin face carries two scales, 0-100 and 100-0 for use with either clockwise or counter clockwise condensers. Dual pointers travel with rotor of condenser; 10-1 tuning ratio. Has two pilot light brackets and brown bakelite escutcheon plate. For ⅜" shaft. Equipped with split bushing for use on condensers having ¼" shaft.
Wt., 2 lbs.
A4177. EACH..... **$1.47**

4 INCH AIRPLANE DIAL

A high quality translucent dial with universal scale. Positive friction drive, will not slip. Tuning ratio 9 to 1, for smooth easy tuning. Dial pointer travels with condenser. Will fit ⅜" shaft. With two pilot light sockets, escutcheon plate and bushing for ¼" shafts.
A4181. YOUR PRICE **$1.03**



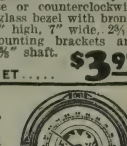
CROWE DeLuxe Micromaster

A brand new MICROMASTER dial combining extremely beautiful appearance with exceptionally fine tuning. Glass protected peach and brown pyralin scale is calibrated 0-100. Two speed planetary drive has slow-tuning ratio of 100 to 1 and fast ratio of about 18 to 1 in 360°. Secondary pointer makes about 36 revolutions to 1 of the main pointer. Complete with 5¾" x 8⅛" bronze escutcheon, two brown knobs, and 3 pilot light sockets.
A3752. 0-100 CLOCKWISE.
A3753. 100-0 COUNTER-CLOCKWISE. NET EACH..... **$5.88**

GIANT 6½ INCH BANDSPREAD DIAL

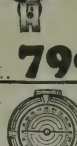
A beautiful 6½" bandspread dial for use in All-Wave Receivers, Test Oscillators, etc. New Divide-a-meter two speed planetary drive provides bandspread equivalent to 11½ feet over 180 degree rotation of pointer. Ratio 22 to 1 over 360 degrees. Planetary ratio 110 to 1. Dual calibrated on broadcast band, for use with 365 mmf. or 420 mmf. condenser. Three-colored scale; two pilot light brackets. May be used with either clockwise or counterclockwise condenser. Beautiful 7½" glass bezel with bronze escutcheon. Overall size 9" high, 7" wide, 2⅝" deep. Complete with mounting brackets and adapter for either ¼" or ⅜" shaft. Shpg. wt., 2 lbs.
A4190. List, $6.75. NET..... **$3.97**

3⅛ INCH AIRPLANE DIAL



A positive-action, smooth-tuning dial. Dual translucent universal scale is protected by convex glass bezel. Tuning ratio 6 to 1. Pointer travels with condenser. Supplied with pilot light socket and handsome bronze finished escutcheon. Fits ⅜ condenser shaft. Equipped with split bushing for use on ¼" shafts. Shpg. wt. 1 lb.
A4182. YOUR PRICE..... **79c**

2⅝ INCH AIRPLANE DIAL



A smooth, positive-action friction-drive dial, with a tuning ratio of 5¼ to 1. Has dual translucent dial calibrated with a universal scale, 0-100 and 100-0, protected by convex glass bezel. With escutcheon and single pilot light socket. Fits ⅜" shaft.
A4175. YOUR PRICE **69c**

CROWE MICROMASTER BANDSPREAD DIAL

A beautiful modern dial for All-Wave or Short-Wave Receivers. Two-speed planetary drive provides a slow speed of 44 to 1 and a fast speed of 9 to 1. "Second hand" pointer ratio is 16 to 1. 3⅜" diam. dial scale, protected by glass bezel; in bronze escutcheon.
A3773. Scales: UPPER, 0-100. LOWER, 100-0. BAND SPREAD, 1-12.
A3774. Scales: UPPER, 100-0. LOWER, 0-100.
YOUR PRICE EACH..... **$3.17**

2 SPEED PLANETARY DRIVE

To be used as auxiliary speed reducer on many controls. Mounts on condenser, back of panel, or on knob shaft of dial. Slow ratio 7 to 1, and fast ratio 1 to 1. Requires dual knob. Fits ¼" shaft.
A3756. YOUR PRICE.... **88c**

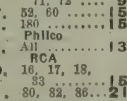
Knobs for Planetary Drives

For drive unit listed at left. Large knob fits ⅞" high speed shaft; small one fits ¼" slow speed shaft.

A3757. Walnut.
A3758. Black.
PAIR **12c**

PHOSPHOR BRONZE DIAL CABLE

The 42 Strand Cable is made up of 6 individual cables each consisting of 7 strands of the finest grade of phosphor bronze wire around central linen core. The 16 Braided Cable is made up of 16 strands of fine bronze wire woven together. Minimum stretch.



42 STRANDED		NET	16 BRAIDED		NET
A6070	5 ft.	$0.20	A6074	5 ft.	6c
A6071	25 ft.	.74	A6075	25 ft.	22c
A6072	50 ft.	1.39	A6076	50 ft.	36c
A6073	100 ft.	2.50	A6077—	100 ft.	60c

EXACT DUPLICATE DRIVE CABLE·BANDS·BELTS

Exact duplicates in size, material and design as the originals. We can supply any type of cable, band or belt on special order. Send in old dial cable, or state make and model of set. We will supply the proper replacement promptly.

Stock No.	Model	NET
	Atwater-Kent	
A6085.	30	15c
A6086.	32	24c
A6087.	35, 37	15c
A6088.	44	24c
A6089.	46	15c
A6090.	55	15c
	Columbia	
A6092.	All	31c
	Brunswick	
A6104.	814, 21, 31	15c
A6105.	15, 22 Front	24c
A6106.	15, 22 Rear	24c
	Crosley	
A6093.	40s, 60s, 804	18c
A6094.	601, 602, 607	21c
	Majestic	
A6095.	No. 1—70, 71, 72	9c
	Majestic (Cont.)	
A6096.	No. 2—70, 71, 72	9c
A6097.	52, 60	15c
A6103.	180	15c
	Philco	
A6098.	All	13c
	RCA	
A6100.	16, 17, 18, 33	15c
A6101.	80, 82, 86	21c

TELEPHONES HEADPHONES *Accessories*

ACME FEATHERWEIGHT HEADPHONES

A VALUE LEADER

An exceptional value. Sensitive and practical for every head set use. "Light as a feather." Each unit weighs less than 1½ ounces. Total weight only five ounces. Well-made and durable. Sensitive to even the faintest signals. Recommended especially for Amateurs, Short Wave fans, hard-of-hearing, and multiple phone installations. Case is made of non-breakable aluminum with light tension flexible headband. Cord is 4½ foot braid covered. A highly sensitive and practical headphone set at a remarkably low cost.

A1190. 4,000 Ohms. (2,000 per phone.) YOUR PRICE..... **$1.20**

A1191. 2,000 Ohms. (1,000 per phone.) YOUR PRICE..... **95c**

SINGLE ACME HEADSETS

A lightweight single unit phone with headband exactly as described above. Can be worn with comfort for hours. With cord.

A1192. 2,000 Ohms. YOUR PRICE..... **70c**

A1193. 1,000 Ohms. YOUR PRICE..... **59c**

DIAPHRAGMS FOR ABOVE

A1194. For Acme Featherweight phones. NET EACH..... **5c**

BRANDES PHONES

Well-known navy type phones of excellent quality. Extremely sensitive; respond to the faintest signal. Made of light-weight aluminum, with unbreakable caps. Adjustable headband is scientifically shaped; can be worn for hours without fatigue. Has lock nut for permanent setting. Equipped with 5 foot "Shielded Radio Frequency" cord, which will not unravel. Standard phone tips will fit any phone plug. Phones measure 2⅝" across for maximum ear comfort. Resistance is 2400 ohms per pair. Recommended for use wherever good quality phones are required. Shpg. wt., 2 lbs.

A2600. YOUR PRICE..... **$1.59**

FROST PHONES

Many superior features are incorporated in Frost phones which add greatly to their efficiency and quality of reproduction. They are light in weight and comfortable to wear; easily adjusted to fit the head. Headband is double type, with woven fabric covers. Units have aluminum shells and hard rubber caps. Cord terminals are inside of case, to prevent accidental shock. With cords. Shipping weight, 2 lbs.

A3251. 3000 OHMS. YOUR PRICE..... **$1.65**

A3250. 2000 OHMS. YOUR PRICE..... **$1.48**

DIAPHRAGMS AND CAPS

A3252. DIAPHRAGMS. YOUR PRICE, EACH..... **8c**

A3253. HARD RUBBER CAPS. YOUR PRICE, EACH..... **18c**

HEADPHONE CORDS

A3254. Good quality standard length double headphone cords. Cotton-covered. YOUR PRICE..... **33c**

REAL PHONES—NEW DUPLEX TELEPHONES

New two-way French style telephones that operate on dry cell batteries; compact, attractive, modern. Furnished in pairs — all ready for use. Only 2 standard dry cells for each set need to be added.

PRACTICAL—USEFUL

Practical at home or at work, especially convenient as room-to-room or house-to-garage telephones. Equally useful in offices, factories, public garages, restaurants, stores, etc. Full instructions for rapid connection are included.

COMPLETE SETS

Complete set consists of 2 Realphones with buzzers and 35 feet of wire. Additional wiring may be added. **Available in four colors.**

A1980. Black.
A1981. Green.
A1982. Silver.
A1983. Chinese Red.
Lots of 3 Sets, Each, $3.82. PER SET .....

YOUR NET PRICE PER SET OF 2 **$4.12**

ACCESSORIES

The only accessories required, for either indoor or outdoor use, are listed below.

A1150. Dry Cells for use with Realphones. NET, EACH..... **19c**

A1984. 100 feet 3 conductor connector cable for outdoor use. NET..... **$1.71**

A1985. 100 feet cable for indoor use. NET..... **$1.37**

MULTIPLE PHONE SYSTEMS: Write for Serv-U-Phone literature, showing private telephone systems having from 2 to 10 stations. We can also supply many types of private telephone systems using multiple telephone units for use in hotels, offices, factories, theatres, hospitals, between house and garage, in the home, etc. Write to us, furnishing full specifications, and we shall quote to meet your needs.

TRIMM FEATHER-WEIGHT PHONES

Extremely compact. Weight is only 4 ounces. Noted for unusual sensitivity and comfort. Bakelite shells and caps, with forged magnets of best grade Cobalt steel. Spring steel headband is adjustable. Diameter only 2⅝". Custom-built for Amateurs, Aircraft, Hard-of-Hearing, etc. The standard phones are ideal for general purpose work. The Special (24000 ohms impedance) phones are designed especially for Short Wave work and have a 36% Cobalt steel magnet.

A5270. 4000 Ohms Standard.
A5271. 24000 Ohms Special.
List, $10.00.
EACH PAIR..... **$5.88**

SINGLE UNIT FEATHERWEIGHT PHONES

HEADBAND STYLE

With adjustable steel headband. Ideal for group hearing-aid installations.

A5273. 2000 OHMS. List, $6.25. YOUR PRICE..... **$3.67**

LORGNETTE HANDLE

Single unit phone as above, but with lorgnette handle, particularly suited for group hearing-aid systems in churches. Handle extends 14 inches.

A5275. 2000 OHMS. List, $6.75. YOUR PRICE..... **$3.97**

TRIMM PROFESSIONAL PHONES

A high quality standard type headphone, suitable for battery, crystal and short-wave sets, as well as for multiple installations. Has bakelite case and cap. Perfectly matched units assure long life. With cords. Cord terminals are inside case.

A5276. 3000 OHMS.
A5277. 4000 OHMS.
List, $3.75

NET EACH **$2.20**

We can supply Trimm Featherweight phones in any special resistance desired, from 1 ohm to 2400 ohms, each unit, at no extra cost. Enclose deposit with order.

CANNON BALL MASTER HEADSETS

An improved, high resistance type headset of excellent quality. Ideal for DX work. Heavy bar magnet assures maximum sensitivity. Terminals are inside case. Has adjustable headband and 4½ foot cord.

A2805. 5000 OHMS. YOUR PRICE..... **$2.35**

A2804. 3000 OHMS. YOUR PRICE..... **$1.85**

CAPS AND DIAPHRAGMS

A2801. CAPS. YOUR PRICE, EACH..... **18c**

A2802. DIAPHRAGMS. YOUR PRICE, EACH..... **5c**

BRUSH CRYSTAL HEADPHONES

High sensitivity headphones of new piezo-electric design. For Amateurs, Short Wave fans, monitoring, measurement work, etc. Has unusually high impedance and wide frequency response between 60 and 10,000 cycles. These phones are ideal for all applications. When used in circuits carrying direct current a small blocking condenser is required. Weight including band and cord only six ounces.

A1200. List, $9.00. YOUR PRICE..... **$5.29**

Single Unit Brush Crystal Phones

A1201. Single phone with metal headband. List, $5.00. NET..... **$2.94**

A1202. Single phone with lorgnette handle. List, $6.50. NET..... **$3.82**

HEARING-AID CONTROL BOX

Designed for use in multiple hearing-aid installations in schools, theatres, churches, etc. Permits adjustment of volume to suit individual hard-of-hearing needs. Resistance, 10,000 ohms. Small and compact, only 1x2x3". Corners and edges smoothly rounded to prevent catching or tearing clothing. Available in either glossy ivory, suitable for theatres, or brown crystal for churches, schools, etc. (Use Knight 8 and 18 watt High Gain Amplifiers for suitable group-hearing use.)

A5280. Brown Crystal Finish.
A5281. Glossy Ivory Finish.
YOUR PRICE, EACH BOX..... **$1.91**

AMERICAN BELL HEADPHONES

SENSITIVE UNITS

These unusually sensitive and efficient headphones are the product of one of America's foremost manufacturers, and are noted for fidelity and clarity of tone. Their aluminum shells and light aluminum caps make them light in weight. The fine magnet gives added retentivity. D.X. fans will be delighted with the fine reception made possible with these quality headphones. Wt., 2 lbs.

A2807. 3000 Ohms. YOUR PRICE.. **$1.25**

97c

2806. 2000 Ohms. YOUR PRICE **97c**

3000 OHMS WITH BAKELITE CAPS

Same sensitive headphones as above, but equipped with bakelite instead of aluminum caps.

2812. YOUR PRICE **$1.32**

DIAPHRAGMS

A2809. YOUR PRICE, EACH..... **5c**

EXTRA ALUMINUM CAPS

A2808. PRICE, EACH **12c**

AMERICAN BELL SINGLE HEADPHONE

A comfortable dependable single unit headphone which is easy to wear. Has a single spring steel headband. Unit is of lightweight construction. May be used on any set equipped for phones; ideal for multiple hearing-aid installations. Complete with cord. An outstanding headphone value.

A2813. 1000 ohms. YOUR PRICE **66c** | **A2814.** 1500 ohms. YOUR PRICE **79c**

OPEN TYPE DETECTOR

Universal Joint on swivel arm provides quick, accurate adjustment on any point of the very sensitive crystal. Handsome polished metal finish. Complete with crystal.

Wt., 8 oz.

7062. for $1.10. ..... **12c**

GLASS ENCLOSED CRYSTAL DETECTOR

A dust-proof glass enclosed detector complete with supersensitive crystal. Standard in 90% of the crystal sets made. A fast selling item. Shpg. wt., 8 oz.

A7061. YOUR PRICE..... **22c**

SENSITIVE MOUNTED CRYSTAL

Carefully tested mounted crystal. Sensitive galena. Fits all standard crystal cups.

A151. Per 10, 55c. EACH **6c**

FEDERAL FIXED CRYSTAL DETECTOR

Will give more selectivity to crystal sets or reflex circuits. Sensitivity is permanently fixed. Mounted in small bakelite case with screw connectors. Pre-tested.

A5110. List, $1.00. NET **53c**

METER TESTED CRYSTAL

These crystals are tested in laboratory on very sensitive meters. Crystal is of genuine Galena composition. Fit all crystal cups.

A4150. NET EACH.. **19c**

CAT-WHISKERS

Set of three. Correctly designed and made of the finest quality wire.

A4152. YOUR PRICE.. **9c**

PHILMORE FIXED CRYSTAL DETECTOR

Extremely sensitive. Selected crystals are meter-tested and permanently adjusted. Housed in compact bakelite case. Eliminates bother of continual adjustment for sensitive spot. Pre-tested.

7063. List. $1.00. EACH **43c**

NEW COMFORT EARPHONE CUSHIONS

A real necessity for those who wear headphones constantly. Makes them comfortable and easy to wear. Made of soft sponge rubber. Sanitary and practical. Will fit all types of phones.

A2810. YOUR PRICE, PER PAIR... **22c**
10 PAIRS **$1.95**

PHILMORE CRYSTAL SETS

THE SELECTIVE

Designed to give most efficient results and possessing unusual selectivity. Built with a tapped coil matched with a .00035 Mfd. variable condenser. The reception on this set is loud and clear. It is exceptionally sensitive and very easy to tune. It has double connection posts making possible the use of two pairs of headphones at one time. The next thing to a tube set at the lowest possible price. Contained in a crackle finish cabinet with a panel of modernistic design. Shipping weight, 3 lbs.

A7053. List, $5.00. NET..... **$2.35**

THE BLACKBIRD

The "Blackbird" is a first quality crystal set presented at the lowest possible price. It requires no tubes or batteries and delivers programs loud and clear without distortion. Housed in crystalline finish metal cabinet with attractive front panel. It employs a dust-proof glass-enclosed supersensitive crystal detector making possible the best of results. A fast seller everywhere. Accessories of good quality are listed below. Shpg. wt., 3 lbs.

A7050. List, $3.00. NET **$1.62**

LITTLE GIANT

A well-constructed crystal set which will give unlimited service. Offers the utmost in entertainment on local stations with the extensive chain programs now being broadcast from stations all over the country. A sensitive crystal is enclosed in a dustproof glass casing. Entire assembly mounted in bakelite case. Shpg. wt., 2 lbs.

A7051. List, $1.50. NET..... **69c**

CRYSTAL SET ACCESSORY KIT

Complete equipment for operating any of the above crystal sets. Consists of a set of good quality headphones, aerial and ground wire, lead-in strip, lightning arrester, insulators and all necessary parts for a perfect aerial installation. Shpg. wt., 4 lbs.

A7054. YOUR PRICE..... **$1.41**

PHILMORE—1-2-3 TUBE SETS

Efficiently designed battery operated sets using the new type '30 and '31 Tubes. Economical to operate, batteries last twice as long. These new circuits embody the use of a variable condenser and spider web coil assuring easy tuning, selectivity, sensitivity and plenty of volume. Shpg. wt., 10 lbs.

A7055. 1 TUBE SET. List, $7.50. YOUR PRICE..... **$4.03**

A7056. 2 TUBE SET. List, $9.00. YOUR PRICE..... **$5.20**

A7057. 3 TUBE SET. List, $13.50. YOUR PRICE..... **$7.35**

Above sets priced less tubes, batteries and headphones.

TUBE AND BATTERY EQUIPMENT

A7058. For 1 Tube Set. Consists of one type '30 tube, one 45 Volt "B" Battery and one 1½ Volt Dry Cell. Wt., 6 lbs. NET **$1.45**

A7059. For 2 Tube Set. Consists of two type '30 tubes, one 45 Volt "B" Battery and two 1½ Volt Dry Cells. Wt., 16 lbs. NET **$1.99**

A7060. For 3 Tube Set. Consists of two type '30 tubes, one type '31 tube, one 22½ Volt and two 45 Volt "B" Batteries, and two 1½ Volt Dry Cells. Shpg. wt., 32 lbs. NET **$3.88**

PHILMORE PORTABLE BATTERY SET

A fine new portable receiver that is light, easy to handle, and a splendid performer. Covers the complete broadcast band. Single tuning control makes it easy to tune. Uses a specially designed high "Q" coil system for maximum sensitivity and selectivity. Has tapped antenna setting for maximum pickup selection. Tubes used draw less than one milliampere for economical battery life. Batteries required: 2 small 1½ volt dry cells, 3 small 4½ volt "C" batteries. Uses one type 30 and one type 49 tube. Fibre carrying case; compact, 5½x8½x7¼". Less tubes, batteries and accessories.

A7065. List. $11.00. YOUR PRICE **$5.98**

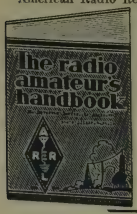
COMPLETE ACCESSORY KIT

Kit includes 1 type 30 and 1 type 49 tubes, complete set of five Burgess batteries, 1 set of sensitive headphones and 25 ft. of aerial wire. These items all fit in same case with the set.

A7066. YOUR PRICE..... **$3.40**

LATEST A.R.R.L. BOOKS

These authoritative books are selected from the Technical Series compiled and edited by the American Radio Relay League. They are the outstanding books for the Amateur.



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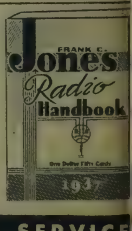

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Prepared by Short Wave Craft Magazine. Describes dozens of successful Short Wave sets and converters, showing wiring and layout diagrams. Clearly written for the Short Wave fan to assure the successful construction and operation of the S.W. sets describe 76 pages.

A5200. NET 38c

101 SHORT WAVE HOOK-UP

Contains complete diagrams and explanatio of all the important short wave hookups of t last five years, including the "19" Twinple "Globe-Trotter," 2 Tube Pee-Wee, Regenerat Oscilloxine, and many others. Shows pictor diagrams for many of the sets.

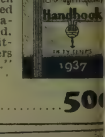
A5204. NET 38c

SHORT WAVE COIL BOOK

Covers every bit of information on coil-win ing that has appeared in print during the pa two years. Contains illustrations galore givi full instructions and showing modern metho for winding all types of coils.

A5205. YOUR PRICE 25c

SHORT WAVE BEGINNERS BOOK



Easy to understand. Explains fundamentals, radio symbols, how to wind coils and construct S.W. sets and aerials. Has valuable tube and wire charts.

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A7076. NET 50c

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This catalog is the most complete in radio. To supplement its completeness, we maintain a special department always on the alert for new radio equipment. We can supply all new as well as special radio items at the very lowest prices. Write to us for quicker, better service.

HOW TO ORDER FROM THIS CATALOG

HOW TO ESTIMATE PARCEL POST RATES

ZONE NO.	DISTANCE IN MILES	COST UP TO 1 LB.	Each Lb. Additional or Fraction
1	Not Over 150 Mi.	8c	1.1c
2	Not Over 150 Mi.	8c	1.1c
3	150 to 300 Mi.	9c	2c
4	300 to 600 Mi.	10c	3.5c
5	600 to 1000 Mi.	11c	5.3c
6	1000 to 1400 Mi.	12c	7c
7	1400 to 1800 Mi.	14c	9c
8	Over 1800 Mi.	15c	11c

HOW TO ESTIMATE EXPRESS CHARGES

Weight Not More Than	FOR DISTANCES OF							
	50 Mi.	150 Mi.	300 Mi.	500 Mi.	750 Mi.	1000 Mi.	1500 Mi.	2000 Mi.
5 Lbs.	$0.39	$0.41	$0.45	$0.48	$0.52	$0.56	$0.66	$0.76
10 Lbs.	.43	.48	.56	.62	.69	.76	.98	1.16
15 Lbs.	.47	.54	.66	.75	.86	.97	1.29	1.57
20 Lbs.	.51	.61	.77	.89	1.03	1.18	1.61	1.98
25 Lbs.	.55	.67	.87	1.02	1.20	1.35	1.93	2.39
35 Lbs.	.63	.80	1.08	1.29	1.54	1.79	2.56	3.20
45 Lbs.	.71	.93	1.29	1.56	1.88	2.21	3.19	4.02
55 Lbs.	.79	1.06	1.50	1.83	2.22	2.62	3.82	4.83
75 Lbs.	.95	1.32	1.92	2.37	2.90	3.44	5.08	6.46
95 Lbs.	1.11	1.58	2.34	2.91	3.58	4.26	6.33	8.09
For Each 100 Lbs.	1.15	1.65	2.45	3.05	3.75	4.47	6.65	8.50

USE OUR ORDER BLANKS

Two convenient order blanks are bound into this book. Additional blanks and envelopes will be sent on request. Special attention given to Phone and Telegraph orders. (All Phones Haymarket 6800.)

EXPRESS SHIPMENTS

Console sets, Windchargers, storage batteries and any other items in this catalog which we have indicated as not mailable, should be shipped by express or freight. In general, it is best to send radios and bulky merchandise by express. If there is no express agent at your location, please be sure to specify your nearest express office. See table below for approximate charges. (All express shipments are insured.)

PARCEL POST SHIPMENTS

Save C. O. D. Charges by sending enough money to cover postage. Any surplus will be promptly refunded. If remittance does not cover postage, shipment will be made C. O. D. for the balance. For your protection all our parcel post shipments are insured. Allow for insurance at the following rates:

Up to $5.00 ..... 5c
$5.00 to $25.00 ..... 10c
$25.00 to $50.00 ..... 15c
$50.00 to $100.00 ..... 25c

The table at the left will help you to compute parcel post charges. If you are not certain about what zone you are in, ask your postmaster.

FREIGHT SHIPMENTS

You save by ordering merchandise sent by freight where rapid shipment is not essential and merchandise selected weighs near 100 pounds or over. The minimum freight charge is for 100 pounds. If you have a freight agent, do not send shipping charges. If you are on a prepaid station, please send funds to pay charges in advance. Any surplus will be promptly refunded. If there is no freight station at your location, please be sure to specify your nearest shipping point.

OVERSEAS CUSTOMERS

Competent attention is given to export orders. Please refer to page 3 for terms. We invite correspondence in all languages.

SPEEDIEST SERVICE

Huge reserve stocks of clean standard merchandise, wonderful transportation facilities, and accurate intelligent handling, assure you of the fastest and safest delivery. The same fast service applies to the valuable personal aid we render without any cost to you on all of your radio problems and inquiries. Whatever your radio needs may be ALLIED SERVES YOU BETTER.

RUSH ORDER BLANK

Allied Radio CORPORATION

833 W. JACKSON BLVD. CHICAGO, ILL.

Cable Address: ALRADIO

All Phones HAYmarket 6800

A3

Write Your Name in Full

Street Address | R. F. D. | Box No.

Post Office | State

Please Give Shipping Point if Different from Post Office

Shipping Point | State | County

HOW SHALL WE SHIP

Express ..... ☐
Freight ..... ☐
Parcel Post.... ☐

On Parcel Post Shipments Be Sure to Include Enough for Postage; Any Excess Will Be Promptly Refunded.

ENTER AMOUNT REMITTED HERE

Paid in Full $.....
Part Paid $.....
C.O.D. $.....

If You Send Currency, Be Sure to Register Your Letter

SEE INDEX PAGE FOR "HOW TO ORDER"

TERMS— Our terms are cash. We ship C. O. D.; new customers should accompany order with 20% deposit. All trade and cash discounts have already been deducted in our catalog quotations. All prices are net, f.o.b. Chicago or factory.

DO NOT USE THIS SPACE

Do Not Use This Column		Catalog Number	Quantity	NAME OF ARTICLE	Price Each		Extend Here and Add This Column		Do Not Use This Column
DO NOT USE THIS SPACE	DO NOT USE THIS SPACE								DO NOT USE THIS SPACE

12 B

TRANSPORTATION ALLOWANCE ON ORDERS OF $25.00 OR MORE

Make your order $25.00 or more and you may deduct 2% from the total as a transportation allowance. This applies to shipments made anywhere in the United States on all radio merchandise described in this catalog, except National Company merchandise. (Foreign orders excepted.) Whether you desire your shipment to go forward by Express or Parcel Post or Freight the same 2% allowance will be made. This offer makes our low prices even more attractive, assuring you bigger margins of profit on every order. Take advantage of our liberal Transportation Allowance. It will pay you to make your order come to $25.00 or more.

ON FREIGHT OR EXPRESS ORDERS

If your station has an agent do not send money for shipping charges. If no agent, send money to pay the charges in advance. Charges are the same either way.

AMOUNT FOR GOODS			
AMOUNT FOR PARCEL POST (We Refund Every Penny Not Used)			
← See Note AMOUNT FOR PREPAID FREIGHT OR EXPRESS			
TOTAL AMOUNT ENCLOSED If currency be sure to send by Registered Mail.			

FEATURE VALUES

INDICATOR MULTIPLE FUSES

- 6 FUSES IN 1.
- INDICATOR GLOWS WHEN FUSE BLOWS.
- TURN OF KNOB ENGAGES NEW FUSE.

A new improvement in fuse design. Contains 6 links; has neon light indicator. When fuse blows neon light glows permitting its easy location; no more guesswork. A turn of the knob on top of fuse engages new link. Fuse has six lives. Underwriters' approved.

A6795. 10 Amp. A6798. 25 Amp.
A6796. 15 Amp. A6799. 30 Amp.
A6797. 20 Amp.

YOUR PRICE EACH..... **25c**

LOTS OF 5, EACH..... **19c**

NEON Tattlelite

Indicates D. C. polarity, A. C. or D. C. circuits, blown fuses, live lines, etc.; has many other test uses. Also serves as R. F. indicator, and to test spark plugs and ignition circuits. Consists of a small neon bulb in non-breakable holder with 2 color-coded leads and phone tips. Leads are heavily insulated. Protective resistor is built in.

A6256. NET..... **59c**

TOBE NO-TENNA AERIAL ELIMINATOR

Tobe engineers have developed this highly efficient aerial eliminator after thorough and painstaking research. Will bring in the broadcast wave with undiminished energy and without noise and interference. Small and well made. May be put in the radio cabinet. Easily attached. No tools needed.

A8409. List $1.00, NET..... **59c**

AIRMETER TELLS HUMIDITY AND TEMPERATURE

For your health and comfort, know the condition of the air you breathe. The Airmeter tells at a glance the relative humidity and temperature with unusual accuracy. Chrome case with black dial face and contrasting aluminum figures and pointers. Size 3¼x3".

A3967. YOUR PRICE EACH..... **67c**

Lots of 6, EACH..... **59c**

Automatic 3-Heat Electric Pad

A high grade Underwriters' Approved heating pad with three heat ranges. Full size 12"x15", with soft camel hair cover. Automatic double-thermostat positively prevents overheating. Heat range selected by 4 position bakelite switch installed in Rayon covered cord; with rubber plug. For 110 V. AC or DC. 55 watts. Thoroughly insulated.

A7638. YOUR PRICE..... **$1.35**

VACULATOR COFFEE BREWER

Made of clearest, full-heat resisting glass with "Ever - Kool" handle, "Snap" filter holder, and filter produces clear coffee. Double brewed "just right." Makes better coffee than old style percolators, coffee-pots, etc. May be used on gas stove, electric stove, or any open flame. Illustrated with single - burner electric stove which is listed separately below. Stove is finished in triple plated chrome, with long-life heating element; supplied with cord set for 110-115 volt. AC or DC.

A10135. 7 CUP MODEL, NET..... **$1.40**
A10136. 9 CUP MODEL, NET..... **$1.60**
A10137. Electric Stove only, NET..... **$1.05**

ELECTRIC KITCHEN CLOCK

A smart, well-made clock of distinctive appearance. Very attractively designed and beautifully finished to harmonize with the modern kitchen. Metal case is 7" in diameter. 4½" white dial has large, easy-to-read numerals; sweeping second hand. Fitted with convex crystal and chrome bezel. Entire movement is sealed to keep out greasy vapors and dust. Available in ivory or green enamel finishes. For 110 volt, 60 cycle AC.

A10305. IVORY; A10307. GREEN. YOUR PRICE EACH..... **$2.20**

SAMSON Safe-flex ALL-PURPOSE FAN

An entirely new kind of fan with 6" blades of flexible rubber; can't cut fingers even at full speed. Utility type base permits hanging on wall, clamping on tables, rails, or right on any flat surface. Attractive modern style with base support, finished in walnut; blades are of brown rubber. High speed motor. For 110 volts, 60 cycle AC. Wt. 4 lbs.

A10452. NET..... **$2.60**

SAMSON 10" FAN

For use wherever the greatest possible air circulation is desired. High speed 10" rubber blades provide greatest possible movement of air; absolutely safe in operation. 2 speeds. Modern design; attractively finished in brown enamel. For 110 volts, 60 cycles.

A10450. NET..... **$5.25**

A10451. Deluxe Model 10" fan. Same as above but finished in ivory with blades to match. NET..... **$5.85**

MIDDLEBURY AVALON Electric CLOCK

A beautiful time-piece appropriate for use in any room in the house. Smart, modern design lends itself well to the furnishings of living room, dining room, bedroom, etc. Case is of solid walnut with hand-rubbed finish and heavy walnut block base. Dial face is in attractive goldine; hour and minute hands are finished in black. Has a sturdy reliable motor, designed to operate continuously with minimum care. Available in two models, time movement only, and time movement with alarm. For 110 volt, 60 cycle AC.

A10460. Time Movement. YOUR PRICE..... **$3.09**

A10461. With Alarm, YOUR PRICE..... **$3.41**

VIDRIO ELECTRIC MIXER

An efficient little labor-saving assistant for the housewife. It beats, whips and mixes, swiftly and smoothly. For eggs, salad dressings, meringue, cream and countless other foods. Motor is completely encased by metal housing. Portable motor driven beater may be used anywhere. Detachable beater is very easy to clean. Glass measured-capacity jar holds 1 pint. For 110 V. 50/60 cycles; complete with cord and plug. A very inexpensive, dependable electric beater that will find innumerable uses in every kitchen. Worth many times our price.

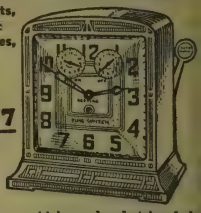
A9163. YOUR PRICE..... **$1.13**

LOTS OF 6. YOUR PRICE EACH..... $1.06

New Haven Electric Time Switch Clock

For Lights, Electric Appliances, etc.

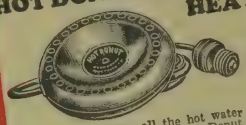
NET EACH **$4.77**



Serves as a high grade electric clock keeping accurate time and also as an automatic control for many types of electric appliances. Will switch radio on or off at a pre-determined time; also controls fans, heaters, night lights, store window lights, etc. Easily adjusted for "on" or "off" action by small dials on face. Can be set for any period "on" or "off" from 10 minutes to 5 hours. Many valuable applications. Housed in attractive brown bakelite case. Underwriters' Approved. For 110 volt 60 cycle AC.

A9150. List, $7.50. NET..... $4.77

HOT DONUT HOT WATER HEATER



ONLY **71c**

Now you can have all the hot water you need in a jiffy. Just connect the Hot Donut to any convenient 110 volt outlet either AC or DC, immerse it in a pan of water and you'll have boiling water in a hurry. Inexpensive and portable; extremely valuable to tourists and travelers. Ruggedly built; heating element thoroughly insulated against moisture. Metal housing finished in bright aluminum, easy to keep clean; will not rust. Has heavy rubber cord 6 feet long with plug.

A9161. YOUR PRICE EACH..... **71c**

YOUR PRICE PER LOTS OF 10..... **$6.65**

BARCOL ELECTRIC FANS

The finest low-priced fans available. Many features found only in fans selling for much higher prices; full four-blade propellers; bakelite motor housing and base; tilting head; quiet induction type high-speed motor; blades of polished aluminum; modern design guards finished in brushed bronze. Streamlined bar grille on all except the 8" single speed model.

8 INCH MODEL

High speed non-oscillating types.

A10453. Single Speed. Less Switch. NET..... **$2.57**

A10454. Two Speed. With Switch. NET..... **$3.12**

10 INCH MODEL

Two popular models. With switch.

A10455. Two speed, non-oscillating. NET..... **$5.69**

A10456. Two speed, oscillating. NET..... **$8.27**

12 INCH MODEL

A full 12-inch fan with high and low speeds. Oscillating type; will provide a real breeze. Cord and plug and with 8 ft. cord and plug and switch.

A10457. NET..... **$10.84**

LOW COST BATTERY RADIO

Knight 5 TUBE BATTERY SUPERHET TUNES 175-550 METERS

- NEWEST OVAL DIAL
- LATEST CIRCUIT
- LATEST TYPE TUBES
- LOW DRAIN
- A. V. C. ACTION
- POLICE CALLS
- NEW ALLOY P.M. DYNAMIC SPEAKER
- ADVANCED SUPERHET CIRCUIT
- SPACE FOR BATTERIES IN CABINET
- VISUAL "ON-OFF" INDICATOR

RCA & HAZELTINE LICENSED

OPERATES ON 3 VOLT DRY "A"—2 VOLT STORAGE OR AIR CELL BATTERY

A superb new farm radio offering a combination of powerful reception, real economy in operation, sharp selectivity, and rich life-like tone. This **Knight 5-Tube 2 volt battery-operated Superhet** incorporates the newest features in battery radio. Tuning range covers 175 to 550 meters for dependable reception of American standard broadcast stations plus upper Police channels. New large easy-to-read oval Airplane dial is clearly calibrated in kilocycles; dial includes visual "on-off" indicator to show when the set is in operation. Five of the newest low-drain tubes conserve battery energy yet provide for strong reception. A full-sized 6" newly-developed alloy P.M. dynamic speaker assures flawless clarity at full volume or at a whisper, for splendid radio tone. Automatic Volume Control provides uniform volume on all stations; eliminates fading.

LOW DRAIN

The **Knight 5** may be operated efficiently from either a 3 volt dry "A" battery, a 2 volt storage battery, or an Eveready Air Cell. When operated from a 3 volt "A" battery, drain is only .5 amps. from "A" battery and 14 M.A. from "B" battery. This means greatest economy in operation and makes the **Knight 5** inexpensive to operate, by assuring maximum battery life. Visual "on-off" indicator eliminates need for extra pilot lamp—saves more battery energy. Our listing offers the **Knight 5** for money-saving operation with a 3 volt dry "A" battery. (If ordered with Air Cell, add $1.88 to battery kit price; if ordered with 2 volt storage "A" battery, add $1.74.) Battery cables have plug-in feature.

POWERFUL NEW CIRCUIT

An advanced R.C.A. and Hazeltine licensed Superhet circuit is incorporated in the **Knight 5.** Designed for maximum efficiency and economy, it uses the latest low-drain tubes as follows: 1C6 as Mod.-Osc.; 34 as I.F.; 1F6 as Det., A.V.C., Audio; 33 as Power Output; 5E1 as voltage regulator. The 1F6 is a triple-purpose tube and does the work of 3 tubes so that the **Knight 5** actually offers 7 tube power with 5 tube economy. Other circuit features include: heavy-duty tuning condenser. A.V.C.; matched alloy P.M. dynamic speaker, etc.

The **Knight 5-Tube Battery Superhet** in table cabinet pictured above, complete with 6" speaker and genuine R.C.A. tubes. Less batteries. Shpg. wt., 21 lbs. Code: FRANK.

A9760. Retail Value, $34.50.
YOUR PRICE **$16.95**

A9898. Battery kit for Knight 5-Tube Superhet. Includes: 2—45 volt "B," 1—22½ volt "C" and 1—Burgess Dry "A" Batteries. Shpg. wt., 37 lbs.
NET **$4.40**

ATTRACTIVE CABINET

The new laydown table cabinet shown above combines graceful beauty with perfect utility. Measures 20¾" wide, 12" deep, 11¾" high; with space to accommodate all batteries and eliminate unsightly, inconvenient trailing wires. Cabinet is built of choice, pleasingly grained walnut; has rounded corners and attractive speaker grille. Simple, but attractive oval dial escutcheon harmonizes with modern design of cabinet. The **Knight 5** is a radio to enhance the appearance of every rural home.

BEAUTIFUL TONE

Rich, faithful tone is another outstanding feature of the **Knight 5 Battery Superhet.** Clear, perfect tone is provided at every level of volume. The powerful 33 output stage achieves full strength volume which is smoothly reproduced by the new 6" special alloy P.M. dynamic speaker. Full-bodied tone—brilliant and life-like—will meet the demand of today's wide-awake battery-radio purchasers. To hear the **Knight 5** in operation is to experience real radio enjoyment.

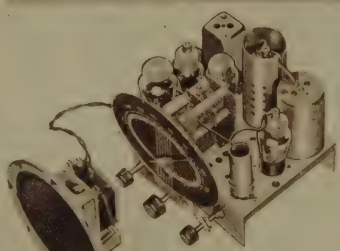
CONSOLE MODEL

The **Knight 5-Tube Battery Superhet** is offered also in the handsome console cabinet illustrated above. Fluted pilasters set off a front face of matched stump walnut. Rounded corners in the modern manner and recessed speaker grille enhance its beauty. Grains are carefully brought out in lustrous finish. Cabinet dimensions are 21½" wide, 10¼" deep, 38" high. All batteries can be conveniently housed inside cabinet. This console model incorporates the same new Superhet circuit described above, and includes new low-drain tubes, full 8" special alloy P.M. dynamic speaker, reception range from 175-550 meters, full A.V.C., practical oval airplane dial with easy-to-read calibrations and visual "on-off" indicator, etc. The Knight 5 is a real "battery-saver"; its cost of operation is unbelievably low. This set has been built to bring farm-homes all the features of "city radio" at a money-saving price. Strong reception, mellow tone, and constantly dependable operation set it off as the finest battery radio that can be sold at so low a price. The Knight 5 is offered complete in console with 8" P.M. alloy dynamic speaker and R.C.A. tubes. Less batteries. Shpg. wt. 46 lbs. Code: FANCY.

A9761. Retail Value, $52.50.
YOUR PRICE **$25.85**

A9898. Battery Kit for Knight 5 includes: 2—45 volt "B," 1—22½ volt "C" and 1—Burgess dry "A" batteries. Shpg. wt., 37 lbs.
NET **$4.40**

CHASSIS MODEL



The **Knight 5** in chassis form offers an ideal replacement for obsolete receivers. Its features are exactly as described above: reception range of 175-550 meters, low-drain tubes, advanced Superhet circuit, oval airplane dial with visual "on-off" indicator, A.V.C., 8" P.M. alloy dynamic speaker, etc. Priced far below its real value. Chassis measures: 7¼x7½x5¾ inches. Complete with R.C.A. tubes and 8" speaker. Less batteries. Shpg. wt., 10 lbs. Code: ENTER.

A9762. Retail Value, $29.50.
YOUR PRICE **$14.45**

A9898. Battery Kit. Includes: 2—45 volt "B," 1—22½ volt "C" and 1—Burgess Dry "A" Batteries. Shpg. wt., 37 lbs.
NET **$4.40**

Powerful — Economical Knight 7 TUBE

3 BAND all-Wave BATTERY SUPERHET

RCA & HAZELTINE LICENSED

- Tunes 3 Bands
- Airplane Dial
- Band Indicator
- Latest Tubes
- Tone Control
- 16 to 550 Meters
- Alloy P.M. Speaker
- "On-Off" Indicator
- Low Drain
- Full A.V.C. Action

The **Knight 7 Tube 3-Band Battery Superhet** in laydown cabinet with 6" P.M. Dynamic Speaker and R. C. A. tubes. Less batteries. Shpg. wt., 28 lbs. Code: RURAL.
A9764.
Retail, $52.50. **NET**... **$25.75**

A9899. Battery Kit (3—45 V. B's and 1—Burgess Dry "A"). Shpg. wt., 35 lbs. **NET.$4.70**

The **Knight 7 Tube 2 Volt Battery Superhet** is a low-priced, sensitive, selective 3 band receiver that will meet with enthusiastic acceptance everywhere in unwired localities where powerful reception, fine tone quality and economical operation are in demand. Tunes three full bands for genuine all-wave coverage: 16.6 to 51.7 meters for world-wide Short-Wave reception; 51.7 to 166.5 meters for Amateur, Police, Ship and Aircraft signals; and 174 to 555 meters for powerful standard American and Canadian broadcast programs. Beautifully designed "laydown" cabinet shown at left measures 23¼"x12"x11½" and has plenty of space to hold all batteries. Splendidly matched and figured walnut is used on all sides of this fine new cabinet. Large, oval Airplane dial is accurately and clearly calibrated for fast, easy tuning on all bands, and is equipped with exclusive "on-off" indicator and wave band indicator. Extremely low battery drain: "A" battery drain is only .420 Amps.; "B" battery drain is only 21 M.A. High efficiency alloy P.M. Dynamic speaker reproduces all programs clearly and flawlessly; Automatic Volume Control prevents fading; Personal Tone Control allows you to emphasize either bass or treble.

OPERATES ON 3 VOLT DRY "A"—2 VOLT STORAGE OR AIR CELL BATTERY

LOW DRAIN

One of the outstanding features of the **Knight Battery 7** is its remarkable operating economy. The visual "on-off" indicator saves battery drain by eliminating the necessity for an extra pilot bulb. The newest low-drain tubes are used for greater efficiency with minimum drain. The set works from either a 3 Volt Dry "A," a 2 Volt Storage, or an Air Cell Battery—no "C" batteries are required—and only 3—45 Volt "B" batteries are used! Convenient plug connectors are provided on the battery cables. Our listing offers the **Knight 7** for low-cost operation with a 3 Volt Dry "A" battery. (If desired with Air Cell, add $1.88. If desired with 2 Volt Storage battery, add $1.74.) The versatility of the **Knight 7**, plus its valuable, practical features assure you of faster sales and bigger profits.

CONSOLE MODEL

The **Knight Battery 7** is also available in the beautiful console model shown at the left. The front face is of matched stump walnut, enhanced by fluted pilasters. Size: 38"x22"x11½". Has plenty of room for all batteries. Furnished with an over-sized 8" P.M. dynamic speaker for highest fidelity, this model offers superb radio entertainment on three complete bands from 16 to 555 meters. Outstanding features are: Big, oval Airplane dial with clean-cut, accurate calibrations; visual "on-off" indicator; remarkably low operating cost; newly developed low-drain tubes; Automatic Volume Control; Tone Control; Wave-Band Indicator; Rubber-floated tuning condenser; etc. Complete with R.C.A. tubes. Less batteries. (See below for batteries). Shipping weight, 50 lbs. Code: WHEEL.
A9765.
Retail Value, $72.50.
NET **$34.85**

CHASSIS MODEL

The **Knight Battery 7** chassis makes an excellent replacement for old and obsolete sets. Measures 10" x 7" x 7". Equipped with 8" P.M. dynamic speaker. Escutcheon is included. Complete with R.C.A. tubes. Less batteries. Shipping weight 12 lbs.
Code: ACORN.
A9766.
Retail Value, $45.00.
NET..... **$21.85**

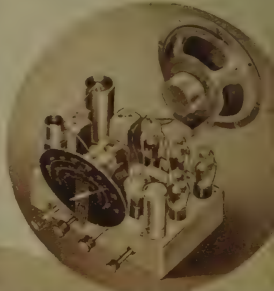
A9899. Battery Kit for 7 Tube Superhet. Includes: 1—Burgess Dry "A" and 3—45 Volt "B" batteries. Shpg. wt. 35 lbs. **NET**.....**$4.70**

SPLENDID TONE

The **Knight 7 Tube Battery Superhet** achieves a true-to-life tone quality that is comparable to that of the finest all-electric receivers. The push-pull output of the type 30 tubes develops strong power which is capably handled by the special alloy 6" P.M. Dynamic speaker (8" in console). This speaker produces rich, full tone at every sound level. Every part of the **Knight 7** has been perfectly matched to bring about a harmonious combination of power and tone unequalled in battery radio.

POWERFUL CIRCUIT

The advanced superheterodyne circuit of the **Knight Battery 7** is licensed by R.C.A. and Hazeltine—your assurance of the latest practical developments. The newest R.C.A. low-drain tubes are used as follows: 1C6 as Mod.-Osc.; 34 as I.F.; 1F6 as Det.-A.V.C.; 30 as Audio Driver; 2—30's as output; 4-1 as Regulator. A heavy-duty rubber-floated tuning condenser is used for sharper selectivity and smoother tuning; Automatic Volume Control prevents fading and eliminates distortion; 10 mv. sensitivity on the broadcast band assures keen response on every signal; Tone Control permits you to emphasize bass or treble as desired; special alloy speaker assures the fullest enjoyment of every program, reproducing high and low notes with extreme fidelity; thorough shielding of all vital components makes for greater safety margin.



Knight 6 TUBE 6 VOLT All-Wave BATTERY SUPERHET

RCA & HAZELTINE LICENSED

REQUIRES ONLY ONE BATTERY

- LOW 1.25 AMPERE DRAIN
- FULL A.V.C. ACTION
- P.M. DYNAMIC SPEAKER
- 6½ INCH 3 COLOR DIAL
- VARIABLE TONE CONTROL
- PUSH-PULL OUTPUT STAGE

The Knight 6 Tube 6 Volt Superhet in table model cabinet. Complete with 6" speaker and R.C.A. tubes. Less 6 Volt "A" battery. Code: TRUST. Shpg. wt., 22 lbs.
A9776. Retail Value, $54.50.
YOUR PRICE ....

$26.95

A10015. 6 Volt Vesta Heavy-Duty 45 Plate Storage Battery. NET...$5.95

Now every home in unwired areas can enjoy modern, dependable radio performance. This **Knight 6 Tube 6 Volt All-Wave Battery Superhet** compares with the best all-electric receivers. It offers such refinements as: powerful All-Wave coverage on 3 full bands from 17 to 555 meters, including Short-Wave Foreign, Amateur, Police, and Airplane bands together with excellent standard Broadcast reception; operation entirely from a single 6 volt storage battery without "B" or "C" batteries; 6½" illuminated, easy-to-tune airplane dial; expertly engineered Superhet circuit using 1—1C6, 1—34, 1—19, 2—30, and 1—32 R.C.A. tubes; full A.V.C.; variable Tone Control, etc. A full 6" P.M. dynamic speaker in the table model assures rich reproduction of both voice and music. The table cabinet shown at left is attractively built with two-tone walnut face and pleasing roll-top effect. All controls are marked and easily operated. Cabinet measures 15¼"x12½"x9". See below for full description of the many fine features in this set.

Costs Practically Nothing to Operate

So economical is the **Knight 6** to operate that the cost is practically negligible. Only one 6 volt Storage battery is needed and the set saves the cost of "B" and "C" batteries. For even greater savings in operation, we recommend the Knight 6 for use with the new Rurlpower Windcharger or gas engine units described on page 140 and 141.

3 FULL BANDS: 17-555 METERS

The new **Knight 6 Tube 6 Volt Battery Superhet** offers powerful All-Wave reception on three full bands continuously from 17 to 555 meters. Tunes 17 to 52 and 52 to 175 meters for reliable Short Wave reception of foreign programs as well as Amateur, Airplane signals and Police calls. The 175-555 meter band covers all standard Broadcast American and Canadian stations. Tuning is simplified through use of a full-sized 6½" illuminated airplane dial with vernier ratio of 15 to 1. All calibrations are large and easy-to-read; names of foreign countries are indicated on Short Wave band.

• **Battery Miser.** The **Knight 6** is so economical to operate that it is actually a "Battery-Miser." No "B" or "C" batteries are required. Low drain tubes are used throughout to assure lowest operating cost without sacrificing maximum efficiency. Drain is only 1.25 amperes in average operation from any 6 volt storage battery. In ordinary use, the **Knight 6** saves from $18 to $25 a year on "B" and "C" battery costs alone.

• **Powerful Circuit.** More than a dozen advanced features are built into this R.C.A. and Hazeltine licensed circuit. Full Automatic Volume Control maintains smooth, steady level; continuously Variable Tone Control permits emphasis of bass or treble; extra-efficient low drain tubes are used, including 1—1C6; 1—34; 1—19; 2—30; 1—32. Self-rectifying long-life full-wave plug-in type vibrator furnishes all "B" and "C" voltages. Stability and dependability are assured by a heavy-duty rubber-mounted tuning condenser, 11 tuned circuits, litz-wound high-gain coils, shielded circuit parts.

• **Rich Full Tone.** Highest fidelity tonal quality is attained with the full-sized Permanent Magnet Dynamic speaker used in the **Knight 6.** This type of speaker is equal to the best electro-dynamic units and handles full volume without distortion. No longer need rural radio listeners put up with "tinny" distorted tone. The **Knight 6** brings you—at a money-saving price—the pure tone of radio's perfect voice.

• **Practically Electric.** Never before have battery radios offered all the conveniences of this new **Knight.** A single 6 volt storage battery does all the work to combine the advantages of all-electric operation with ideal economy. The **Knight 6** costs less to operate; requires only inexpensive, occasional charging of the 6 volt "A" battery.

THE CONSOLE MODEL

The **Knight 6 Tube 6 Volt All-Wave Battery Superhet,** with all features described above, is offered also in the modern console cabinet illustrated at the right. Combines "streamline" simplicity with richly grained woods. Has center panel of matched figured walnut, fluted pilasters, and "roll-top" effect. Size: 39½" high, 22" wide, and 12" deep. The console model is equipped with an 8" P.M. Dynamic speaker for superb tonal quality. Circuit features All-Wave tuning from 17 to 555 meters; A.V.C.; Tone Control; 6½" Airplane dial; low-drain—only 1.25 amps; multi-purpose tubes; 11 tuned circuits; plug-in type vibrator for "B" and "C" supply, etc. **Knight 6 Volt 6 Tube All-Wave set** in console cabinet, complete with 8" speaker and R.C.A. Tubes. Less 6 volt "A" battery. Code: COUNT. Shpg. wt.: 50 lbs.
A9777. Retail Value, $77.50.
YOUR PRICE ....

$37.50

A10015. Vesta 6 Volt Heavy-Duty 45 Plate Storage "A" battery. Shpg. wt., 42 lbs. **NET**.....**$5.95**

THE CHASSIS MODEL

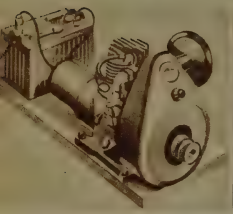
Perfectly suited for all replacement purposes. Measures 8"x8"x11¼". Supplied with 8" P.M. Dynamic Speaker and genuine R.C.A. Tubes. Covers all bands from 17 to 555 meters; has A.V.C., Tone Control, 6½" illuminated airplane dial (with escutcheon), rubber-cushioned condenser, etc. Operates entirely from one 6 volt Storage battery. (No "B" or "C" batteries necessary.) Less 6 Volt "A" battery. Code: CIVIC. Shpg. wt.: 18 lbs.
A9778. Retail Value, $51.50.
YOUR PRICE ....

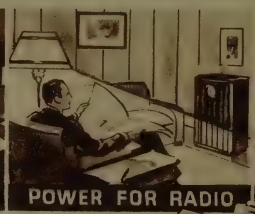
$25.45

A10015. Vesta 6 Volt Heavy-Duty 45 Plate Storage "A" Battery. Shpg. wt., 42 lbs. **NET**.....**$5.95**

See Pages 140-141 For Complete Listing of Rurl-Power Gas Engine and Windcharger Units—Ideal for Use with the Knight 6 Tube 6 Volt Superhet

Now! ECONOMICAL FARM LIGHTING AND LOW COST RADIO POWER





Rurlpower gives you light and power conveniently and economically. Supplies current for radio and for real electric lighting. Operates washing machines, pumps, churns, etc. A real necessity for farm homes, trailers, boats, camps, etc.

De Luxe MODEL 6 VOLT LIGHT & POWER PLANT

Here is the new, improved DeLuxe Rurlpower 6-12 Volt Plant designed to fulfill efficiently and inexpensively every light and power requirement of the farm, trailer, boat, sound truck, traveling show, etc.—wherever electricity is not available. Compact, portable, dependable, it charges 2 Volt, 6 Volt and 12 Volt storage batteries, developing 150-250 watts of direct current for quick, low-cost charging, to permit the operation of 6 Volt bulbs, (see listing below), 6 Volt Radios (see pages 139, 142, and 143), and 6 Volt Sound Systems; also has direct motor power take-off for driving many farm appliances. Has both push-button and rope starting.

$35.75 Complete

WHAT RURLPOWER DOES

Rurlpower DeLuxe will keep your 2 Volt, 6 Volt and 12 Volt storage batteries fully charged all the time for continuous, better radio performance and for big-city electric light convenience. Washing machines, cream separators, pumps, etc., requiring not more than ⅓ H.P. can be driven from the pulley attachment. At a remarkably low cost, Rurlpower will eliminate battery-charging worries, old-fashioned lighting methods and burdensome chores. Enjoy the comfort and convenience of electric power offered by Rurlpower! Push-button self-starting—snap! and it's working! Portability—you can carry it anywhere! Economy—runs 2-3 hours on a quart of gas! Practicability—hundreds of valuable uses! Rurlpower will save you enough time, money and effort to pay for itself in a few weeks. There are tremendous savings and profits in Rurlpower!

RURLPOWER SPECIFICATIONS

Rurlpower consists of a gasoline engine driving a direct-connected 6-12 volt generator. Engine is famous Lauson "Smoothflo" 4 cycle cylinder "L" head vertical type ⅓ H.P. type; aircooled, with suction type carburetor and low-tension ignition system. Has both push-button and mechanical auxiliary starter. Generator is shunt-wound, developing 150-250 watts D.C., 6 volt or 12 volt at 2350 R.P.M. Fully enclosed and protected; has special field control knob to regulate charging output, positive circuit-breaker and radio noise eliminator. Tank capacity: 1 qt. of gasoline; engine crankcase holds 1/10 gal. of oil. Equipped with built-in ammeter and auxiliary pulley. Wt., 52 lbs. Size: 16"x11"x10".

A10034. Complete DeLuxe Gas Engine and Generator as described, with full instructions. Shpg. wt., 56 lbs. List, $54.95. **YOUR PRICE** **$35.75**

STANDARD RURLPOWER MODEL

This model is similar to the DeLuxe model in appearance, features and specifications, except that it charges 2 volt and 6 volt batteries only, and has a rope starter. Compact, portable, efficient and reliable. Supplies 150 watts, 6 volts DC to inexpensively charge storage batteries for the operation of 6 volt light bulbs, 6 volt radios, 6 volt sound systems, etc. By means of an auxiliary pulley, Rurlpower will drive washing machines, pumps, churns, and other appliances requiring not more than ⅓ H.P. Will charge one or more 2 volt or 6 volt storage batteries. Costs less than a penny an hour to operate—will pay for itself in a few weeks in savings on charging costs, lighting expenses and time-wasting drudgery! You'll save—you'll make more money both in charging storage batteries for others and in selling the unit itself! Order a Rurlpower unit as a demonstrator—it's the best answer to the rural light and power problem. Shpg. wt., 50 lbs.

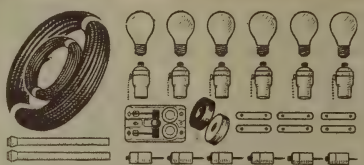
A10035. Standard Rurlpower Complete. NET **$29.95**

TABLE LAMP

An attractive table lamp of modern design combining pleasing appearance with soft even diffusion of light. An ideal reading lamp. Overall height is 16" with colored parchment shade 10½" in diameter. Decorated shade is cellophane wrapped. Equipped with standard Edison socket with on-off switch. Supplied with 6 foot silk-covered cord and male plug socket.

A9162. Table Lamp Less Bulb **$1.05**

6 VOLT LIGHTING SYSTEM



A complete kit of essential equipment for wiring the rural home. Enables you to take full advantage of electric light obtained from 6 volt storage battery. Provides modern lighting at low cost. Easily installed. A 6 volt battery charged by means of the Rurlpower light plant, or Rurlpower Windcharger will provide an abundance of soft restful illumination. The complete lighting system kit contains: 1—Porcelain double-pole entrance switch and fuse block, 2—30 Ampere plug fuses, 100 ft. roll No. 8 triple braid-covered weatherproof wire, 25 ft. roll twisted drop cord, 3—25 watt and 3—15 watt 6 volt light bulbs, 6—pull-chain sockets, 6—porcelain cleats, 6—porcelain nail-knobs, 2—6" porcelain tubes, 1—4 oz. roll friction tape, 1—4-oz. roll rubber tape, and instructions.

A2922. NET **$8.95**

KEN-RAD 6 VOLT LIGHT BULBS

These high grade G.E. licensed light bulbs give maximum light from a 6 volt storage battery. Ideal for use in farm lighting systems, camps, lodges, house-trailers, etc. Made by KEN-RAD; nationally known for quality and life. Have standard Edison type base; inside frosted bulb gives soft even light diffusion. Write for attractive quantity prices. (Also available in 12 volt type; see listing on page 21.)

No.	Watts	Drain	EACH
A795.	15	2.5 Amp.	30c
A796.	25	4.2 Amp.	30c
A820.	50	8.5 Amp.	40c

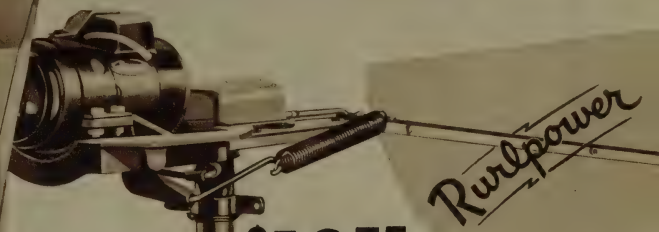
A5469. PULL-CHAIN SOCKET. Pendant type, standard Edison socket with satin-finish brass shell. Threaded at bottom of shell to accommodate screw-on type reflector. Heavily-insulated; with long life spring for positive "on-off" action. With 6" pull-chain.

NET EACH **17c**

Free POWER FROM THE WIND with AMERICA'S most DEPENDABLE WINDCHARGER

NEW RURLPOWER WINDCHARGER

Get your power from the air—FREE—with the most reliable Windcharger ever made! The new, perfected Rurlpower Windcharger offers true economy in storage-battery charging—costs nothing to operate. Keeps 6 volt and 2 volt storage batteries fully charged for continuous, dependable radio performance. Puts the wind to work for you—eliminates bother and inconvenience. Delivers up to 16 amperes of direct 6 volt current. Important new features make this America's most dependable Windcharger. Employs a newly-designed, exclusive Delco-Remy generator which has been especially manufactured for Windcharger use—instead of the customary re-built, re-wound automobile type generator. The new Delco-Remy generator means longer, more dependable service for you! The Rurlpower Windcharger offers a splendid combination when used with the new Knight 6 Volt Receivers shown on pages 139, 142 and 143. Assures better radio performance because it eliminates the hazard of run-down batteries; pays for itself through savings in time and battery-recharging costs. Propeller and generator are automatically self-adjusting to wind-velocity through tip-back action. Protected against weather; ruggedly built for long life; carefully engineered with many distinct new refinements.



WITH NEW GENUINE DELCO-REMY GENERATOR

$19.75 Complete

- **New Delco-Remy Generator—especially designed for Rurlpower Windcharger.**
- **Charges 6 volt or 2 volt storage batteries at a rate up to 16 amperes.**
- **Generator has double-sealed ball bearings; low-wound to cut in at 350 R.P.M.**
- **Airplane type propeller protected by metal-sheathed leading edges.**
- **All electric outlets are fully shielded against weather.**
- **Pivoted equalizer bar assures proper spring tension.**
- **Swivel throw-out collar automatically corrects position for any wind.**
- **Rotogrip distributor maintains double tension contact—permits free rotation of power head.**
- **Generator is self-governing—mounted in offset tilting cradle.**
- **Ten foot tower is rigidly constructed, easy to assemble.**

CHARGES ANY STORAGE BATTERY

The Rurlpower Windcharger quickly and efficiently charges any 6 Volt Storage "A" Battery, or, when used with the resistor below, will charge a 2 volt storage battery. Automatic cut-out prevents injury to battery. Governor controls speed of propeller to permit fullest use of generator. Easy starting and stopping is assured through the simple pull-down wire attached to the swivel-collar. To install, simply mount Windcharger and 10 foot tower on any unobstructed roof or in a high, open place; attach wires from generator outlet to storage battery—the wind does the rest. May also be used for limited lighting service with heavy-duty batteries such as the types shown below.

A10032. Rurlpower Windcharger complete. Includes Delco-Remy generator and head-mechanism, wired and ready to mount; includes 10 foot Tower, Propeller, Tail Vane, Ammeter on panel, Cut-out, Battery clips, etc. Complete instructions supplied. Shpg. wt., 75 lbs. **$19.75**
List price, $29.95. **YOUR NET PRICE**.....

A10031. 2 Volt Resistor for charging 2 Volt Storage Battery from Windcharger line. **NET**..... **55¢**

6 VOLT LIGHT PLANT ACCESSORIES

6 VOLT STORAGE BATTERIES

Especially designed for use with Rurlpower units. Oversize plates and carefully sealed cells provide long efficient service for lighting use.

A10021. 51 plate. For radio and not more than 1—25 watt lamp or 2—15 watt lamps. 55 lbs. **NET**..... **$10.45**

A10022. 63 plate, medium-duty type. For radio, and not more than 2—25 watt or 4—15 watt lamps. 65 lbs. **NET**..... **$14.45**

A10023. 75 plate heavy-duty type. For radio, and up to 3—25 watt or 6—15 watt lamps. 75 lbs. **NET**.... **$18.95**

A10024. GLASS JAR DELUXE TYPE. Especially developed for farm lighting service. Has unusually heavy plates. Pilot cell indicates gravity test at all times. Supplied with a sturdy wood protective case. 125 lbs. **NET**..... **$19.45**

LIGHT PLANT WIRE

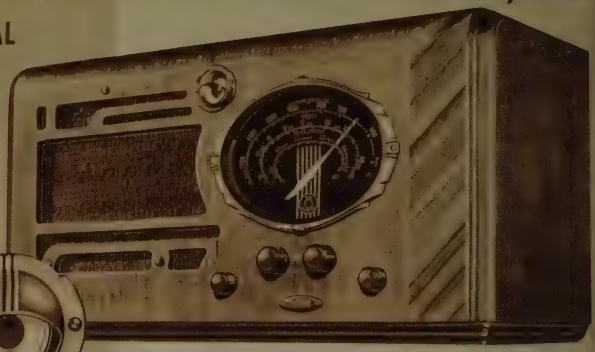
Weatherproof single conductor wire for use with Windcharger or Rurlpower plants. Solid copper conductor; triple cotton-covered and impregnated. For battery charging, use wire as follows: At a distance of 75 feet from charger to battery, use No. 6; at 50 feet, use No. 8; at 25 feet, use No. 10; at 15 feet, use No. 12. For a single 6 volt 25 watt lamp, 150 feet from battery, use No. 8; 75 feet, use No. 10; 50 feet, use No. 12; 30 feet or less, use No. 14.

No.	Size	100 Ft.	Per Ft.
A2490	6	$5.25	5½¢
A2491	8	4.50	5¢
A2492	10	3.10	3¼¢
A2493	12	2.65	3¢
A2496	14	1.25	1½¢

Knight 7 TUBE *all-Wave* 6 VOLT SUPERHET - *Almost Batteryless!*

POWERFUL & ECONOMICAL FOR UNWIRED HOMES

- 3 BANDS: 16-550 METERS
- ELECTRIC EYE TUNING
- NEW ALLOY P.M. SPEAKER
- VARIABLE TONE CONTROL
- WAVE-BAND INDICATOR
- FULL A.V.C. ACTION
- LARGE OVAL DIAL
- 3-GANG CONDENSER
- USES ONLY 1 BATTERY



RCA & HAZELTINE LICENSED

WITH ELECTRIC EYE

Operating entirely from a single 6 volt storage battery, this new **Knight 7-Tube All-Wave Superhet** offers powerful world-wide reception, remarkable economy, and radio's latest refinements—to every unwired home. Tunes the world in three continuous bands: 16.7 to 52 meters for foreign and domestic Short-Wave programs; 50 to 175 meters for Amateur, Police, Airplane and Ship signals; 175-550 for cross-country American and Canadian standard Broadcast. Combines power, performance, value and beautiful styling. The table model is offered in a richly-designed "lay-down" cabinet with front and top of one-piece neatly grained walnut enhanced by contrasting trim strip and matched grained sides. Rubbed to a high, lustrous finish. Measures: 9" deep, 21" wide, 11" high. Features radio's newest developments.

The **Knight 7-Tube 6 Volt 3 Band Superhet** is offered in table cabinet, with 8" speaker and R.C.A. low-drain tubes. Less "A" battery. Shpg. wt., 28 lbs. Code: SWEET.
A9768.
Retail Value, $67.50.
YOUR PRICE..... **$32.45**

A10015. Vesta Heavy-Duty 45 Plate 6 Volt Storage battery. Shpg. wt., 42 lbs.
NET.....**$5.95**

- **Electric Eye.** Exactly as used in newest all-electric receivers. Shows at a glance when your station is tuned in correctly. An accurate visual way of tuning stations perfectly and conveniently.
- **Large Oval Airplane Dial.** Every band has an individual scale, calibrated clearly in kilocycles for Broadcast, and in megacycles for Short-Wave. Easy to read; easy to tune on both Short-Wave and standard Broadcast.
- **Visual Wave-Band Indicator.** Shows you instantly the band that is in use. Operates smoothly from wave-band knob.
- **New P.M. Dynamic Speaker.** Built of new special alloy to reproduce every sound richly and clearly and to provide tonal quality fully equal to A.C. electro-dynamic speakers.
- **Variable Tone Control.** Permits you to accentuate bass or treble on any program to suit your individual tastes.
- **Automatic Volume Control.** Maintains constantly uniform volume level; completely eliminates annoyance of blasting or fading.
- **3-Gang Condenser.** Rubber-floated for stability. Provides selective tuning and enables you to separate stations sharply and easily.
- **Low Drain Circuit.** Uses latest low-drain tubes for maximum economy of operation; incorporates 6A7 as Mod.-Osc.; 15 as I.F.; 76 as Det.-A.V.C.; 15 as 1st Audio; 76 as 2nd Audio; 19 as Power Output; 6G5 as Electric Eye. Total drain is only 2.8 amps. All tubes are ruggedly constructed to permit operation of Rurlpower Windcharger or Gas Engine Generator while radio is in use. Circuit is R.C.A. and Hazeltine licensed, assuring you of every new technical achievement from these world-famous radio laboratories.
- **Lamp Attachment.** Chassis has socket at rear for connection to 6 volt table or floor lamp. Ideal for use with Rurlpower equipment shown on pages 140-141, to save you even more on operating costs.

CONSOLE MODEL

The **Knight 7-Tube 6 Volt Battery Superhet** is offered also in the beautiful console illustrated at the left. Built of selected striped walnut, with gracefully fluted pilasters and streamlined top beading. Has recessed grille for best acoustical results. Size: 39" high, 25" wide, 11" deep. Complete with 8-inch P.M. dynamic speaker and R.C.A. low-drain tubes. Less 6 volt "A" battery. Shpg. wt., 55 lbs. Code: TRIBE.
A9769.
Retail Value, $92.50.
YOUR PRICE... **$44.35**

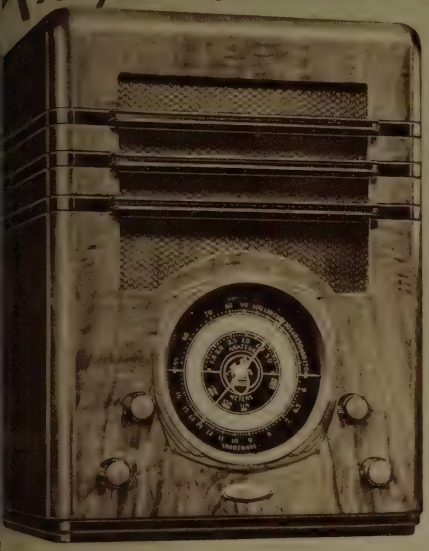
CHASSIS MODEL

The **Knight 7-Tube 6 volt Superhet** is available in deluxe chassis form as illustrated. This chassis is worthy of the finest cabinet. Supplied with full 8-inch P.M. dynamic speaker. Full-sized; measures 11¼ inches wide, 6½ inches deep, 8½ inches high. Reflects the highest type of workmanship and quality. Supplied with genuine R.C.A. low-drain tubes. Less 6 volt "A" battery. Shpg. wt., 18 lbs. Code: MOTIF.
A9770.
Retail Value, $62.50.
YOUR PRICE... **$29.95**

A10015. Vesta Heavy-Duty 45 Plate 6-volt Storage "A" battery. Shpg. wt., 42 lbs. **NET**.....**$5.95**

Knight 6 TUBE ALL-WAVE ALL-ELECTRIC 32 VOLT SUPERHET

The Finest in 32 Volt Radio!



RCA & HAZELTINE LICENSED

The **Knight 6-Tube 32-Volt Superhet** is offered in the beautiful table model cabinet illustrated, with 6½-inch dynamic speaker, complete with 1—6A7, 1—6D6, 1—75, 1—76, 2—48 Raytheon tubes. For 32-volt operation. Code: VICAR. Shpg. wt., 20 lbs.

A9724. Retail Value, $52.50.
YOUR PRICE.....

$24.75

- 3 FULL WAVE BANDS
- 17 TO 555 METERS
- DYNAMIC SPEAKER
- FULL A.V.C. ACTION
- TONE CONTROL
- GIANT AIRPLANE DIAL
- VERY LOW DRAIN

This **Knight 6** is the finest 32 Volt Superhet built today—an outstanding combination of beauty, power, tone quality, economy and convenience. The attractive table model is built of choice, matched woods, designed in the latest "streamlined" style. Measures: 17"x 13"x9". The receiver features continuous All-Wave reception on three bands: 17-52 meters for foreign and Domestic Short-Wave; 52-175 meters for Police, Amateur and Aircraft signals; and 175-555 meters for powerful American and Canadian standard Broadcast programs. New "uni-coil" system assures uniformity in band coverage, selectivity and sensitivity; large 6½" Airplane dial is attractively colored and fully illuminated; heavy-duty 6½" dynamic speaker produces clear, flawless tone; other features are described below. A wonderful 32 Volt value at an amazingly low price!

LOW-COST 32 VOLT RADIO

Works from Any 32 Volt D.C. Source. The **Knight 32 Volt D.C. Superhet** is ntirely all-electric. No batteries, power units or vibrators are required; there is nothing go wrong. Uses the new type 48 tubes which operate directly from any 32 Volt urce for genuine all-electric convenience, power and economy. Here is a luxurious l-electric 32 Volt receiver with every new and advantageous feature of the finest A.C. ts—offered at an unbeatable low price.

Giant Airplane Dial. A giant-size colored Airplane Dial is used in the **Knight 32 olt Superhet**—6½" in the table model, and 8" in the console. Fully illuminated and early calibrated—in kilocycles for the 52-175 and 175-555 meter bands, in megacycles r the 17-52 meter band. Popular Short Wave channels are clearly indicated.

Latest Features. Every advanced feature found in the finest A.C. sets: full A.V.C. r uniform volume and freedom from noise; Continuously Variable Tone Control for ccentuation of either bass or treble; smooth, dependable wave-band switch; bar-type, ubber-cushioned tuning condenser; heavy-duty dynamic speakers—6½" in the table odel, 8" in the console; newest multi-function tubes; litz-wire pi-wound coils, 10 uned circuits; etc.

Actual 8 Tube Efficiency. The new R.C.A. and Hazeltine licensed circuit employs e following multi-function Raytheon tubes for actual 8 tube efficiency: 1—6A7 as et.-Osc.; 1—6D6 as I.F. Amplifier; 1—75 as 2nd Det.-A.V.C.-Audio; 1—76 as Audio river; and 2—48's as Push-Pull Audio. Total drain is only 35 watts. Simply plug e set into any 32 Volt D.C. line and you're ready to enjoy radio at its finest. The **night 6** is the outstanding value in the finest, most economical 32 volt radio made today.

CONSOLE MODEL

The **Knight 6-Tube 32-Volt Superhet** offered in the fine console illustrated at ght. Built of choice walnut woods; 37" gh, 20" wide, 10¾" deep. With 8-inch peaker, 8-inch dial and complete set of aytheon tubes. For 32-volt operation. hipping weight, 50 lbs. ode: CHANT.

9725. etail Value $74.50.
OUR PRICE.....

$35.85

CHASSIS MODEL

The **Knight 6-Tube 32-Volt Superhet** is also available in chassis form. Supplied with 8-inch dynamic speaker and 8-inch dial. Size: 11¼" wide; 9" deep; 7¾" high. Comes complete with Raytheon tubes. Shipping weight, 17 lbs. Escutcheon and knobs are furnished. Code: RIVER.

A9726. Retail Value, $45.00.
YOUR PRICE.....

$21.95

Knight 6 VOLT 6 TUBE SUPERHET

The Knight 6 Tube Superhet is also available for 6 Volt operation in exactly the ame cabinets as illustrated above. This new **Knight 6 Volt Radio** combines the adantages of all-electric utility with the economy of operation from a single 6 volt storage attery. A quiet long-life vibrator unit furnishes "B" and "C" power supply, eliminating bothersome "B" and "C" batteries. Battery drain is only 1.8 amps. Complete, ontinuous All-Wave coverage brings in foreign and domestic Short Wave programs on he 17-52 and 52-172 meter bands; and powerful standard Broadcast programs on the 72-555 meter band. Heavy-duty P.M. special alloy dynamic speaker delivers all programs early and faithfully. New low-drain "heater" type tubes are used in the R.C.A. and Hazelne licensed circuit as follows: 1—6D8 as Det.-Osc.; 1—6S7 as I.F. Amp.; 1—6L5 as 2nd Det.-A.V.C.; 1—6L5 as Audio; 1—6L5 as Driver; and 1—19 as push-pull output stage. Other eatures include: large illuminated airplane dial; "uni-coil" system; full A.V.C.; Tone Control; ubber-floated tuning condenser; Litz pi-wound coils; 10 tuned circuits; Class "B" push-pull utput stage, etc. For greatest economy, we recommend the use of this **Knight 6** with the urlpower gas engines or the Rurlpower Windcharger described on pages 140-141.

TABLE MODEL

The **Knight 6 Tube 6 Volt Superhet** with 6½" speaker and Raytheon tubes. Table model as above. Less "A" battery. Code: LEDGE.

A9728. Retail, $57.50.
NET.....

$27.65

CONSOLE MODEL

The **Knight 6 Tube 6 Volt Superhet** in console above, with 8" speaker and Raytheon tubes. Less "A" battery. Code: BEVEL.

A9729. Retail, $72.50.
NET.....

$39.45

CHASSIS MODEL

The **Knight 6 Tube 6 Volt Superhet** in chassis form, with 8" speaker and Raytheon tubes. Less A battery. Size 11¼ x 9 x 7¾". Code: WATCH.

A9730. Retail, $54.50.
NET.....

$25.95

A10015. Vesta 45 Plate Heavy-Duty 6 Volt Storage Battery. Shpg. wt. 42 lbs. **NET**.....**$5.95**

FITS ANY CAR

MATCHES ALL DASHES

STEERING COLUMN

DASH MOUNT

UNDER DASH

NEW *Knight* SUPPRESSORLESS 6 TUBE AUTO RADIO *with Exclusive Features*

- ALL-ELECTRIC
- NO SUPPRESSORS
- 6" DYNAMIC SPEAKER
- 3-GANG CONDENSER
- MATCHES ANY AERIAL
- TONE CONTROL
- FULL A.V.C. ACTIO
- 3 WATTS OUTPUT
- VERY LOW DRAIN
- NEW TYPE DIAL

RCA & HAZELTINE LICENSED

New! Thrilling! The finest 6-Tube Auto Radio money can buy Designed with the precision, ruggedness and quality demanded by th automotive industry. Unparalleled for tonal brilliance, large depend able power and outstanding new refinements. Complete Noise Sup pression is achieved by the use of a special multi-filter system whic assures the enjoyable noise-free operation provided by the finest hous type receivers. The **Knight 6 Auto Radio** fits any car easily (in cluding the Ford). Its compact size (8⅜x6x7¾x7") and single hol mounting feature adapt it for easy mounting in any one of four pos tions. Only 1 battery and 1 aerial connection are required. Work with any auto antenna—matching perfectly to either low or hig capacity types. The rugged constructon of the entire receiver assure a secure and permanent vibration-free installation. The use of th newest tubes promotes stability and freedom from interference. Tun ing mechanism is fully illuminated. True A.V.C. prevents fading an keeps volume at constant level. Variable Tone Control permits tona emphasis as desired. The large 6-inch electro-dynamic speaker is de signed to deliver flawless tone.

9 TUBE EFFICIENCY—6 TUBE ECONOMY

The new **Knight 6-Tube Auto Superhet** incorporates the latest RC and Hazeltine licensed circuit. The use of dual-purpose and triple-purpos tubes assures actual 9-tube efficiency with 6-tube economy. Has full 3 watt output which is beautifully handled by the built-in full 6" dynamic speake A 3-gang rubber-cushioned condenser with a noise-reducing pre-selecto stage of R.F. amplification, a newly developed iron-core antenna coil an double-tuned I.F. transformers positively assure 1 microvolt sensitivity an 10 K.C. selectivity. Has 6 tuned circuits. All parts (including fixed con densers) are securely bracketed to resist vibration. Case is of heavy-gaug rust-proof steel, well-ventilated, with complete dust-proof provision fo speaker and condenser. In handsome dark maroon finish, with smag chromium grille. Patented antenna circuit gives maximum efficiency wit any type of auto aerial. The **Knight 6** is really a Custom Auto Radio de signed to fit and match all cars by the use of the special remote contr mounting kits listed below at left. No other 6-Tube Auto Radio offers th luxurious performance and exclusive features incorporated in the ne **Knight 6.**

The **Knight 6-Tube Auto Radio** is offered complete with 1—6A7, 2—6D6, 1—75, 1—41 and 1—84 Raytheon tubes. With flexible shafts, tuning control mechanism and hardware. (Less control mounting panel—see listing below for proper panel kit to fit your car). Shpg. wt., 22½ lbs. Code: ELITE.

A9780. Retail Value, $39.95.

NET PRICE EACH, $22.95.
LOTS OF THREE, EACH.....

$21.95

SPECIAL CONTROL MOUNTING KITS

A9796. TYPE A. Universal control which adapts tuning mechanism of **Knight 6 Auto Radio** to fasten to lower edge of dash instrument panel. Makes an attractive installation in cars which do not have custom-control provision on dash.

YOUR PRICE EACH.....90c

A9797. TYPE B. Custom control for mounting on dash panel of cars equipped with ash tray compartment. When ordering, be sure to specify make, model and year of car, indicating whether de luxe or standard. (See illustrations at foot of page for popular custom-matching controls.)

YOUR PRICE EACH.....$1.15

SPECIAL FOR FORDS

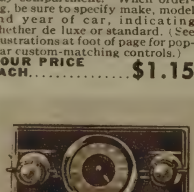
FORD CONVERSION KIT

Special accessory kit for For cars. Consists of special front cove to replace speaker cover on th **Knight 6-Tube Auto Radio.** In cludes extension cord, plug and jac adapter, making it possible to re move the speaker furnished with th **Knight 6** from the speaker grille s that it can be installed in th header speaker plate in all lat model Ford cars. The tuning un of the **Knight 6** will easily fit i installation space available in th Ford. Makes a perfect installatio in any model Ford Car.

A9795. Ford Conversion Kit.

YOUR PRICE.....90c

FORD



CHEVROLET

PLYMOUTH

PONTIAC

SCOOP! THE SENSATIONAL NEW Admiral TOUCH-O-MATIC SAFETY TUNING UNIT

Works with Any AUTO RADIO

- TUNES BY PUSH-BUTTONS
- MAKES AUTO RADIO SAFE
- 100% ACCESSIBLE
- TUNES WITH PRECISION
- 5 STATIONS IN 5 SECONDS
- EASY TO INSTALL
- COMPACT BAKELITE CASE
- TUNING SAFETY AT LAST!

THE TOUCH-O-MATIC UNIT—WHAT IT IS—WHAT IT DOES

ALLIED leads again with the first real step toward safe Auto Radio tuning—a sensational new safety feature! The exclusive new **TOUCH-O-MATIC TUNING UNIT** consists of a compact bakelite housing into which six small push-buttons are incorporated. Five of these buttons are for program logging, each controlling a separate station. The sixth button is intended for channel clearing—it makes the change from push-button tuning to regular manual dial tuning, or *vice versa*, as desired. By merely pressing any one of the five station-control push-buttons, you can accurately log the program being broadcast by that station. Imagine it! You can tune the station you want with a simple movement of your finger—safely, precisely—without taking your eyes off the road. That's safety for you—for the first time in Auto Radio tuning.

For All Stations. Any one of the five station buttons can be easily adjusted to any frequency or any station on the broadcast band. The five buttons will adequately cover the most popular broadcast stations in each locality. Stations come in perfectly there is no chance of drift.

Regular Control Can Be Used. The regular manual tuning dial of the auto radio can be used by simply pushing the sixth button into the "off" position. This puts the set into operation for use with the regular control head to cover all broadcast stations.

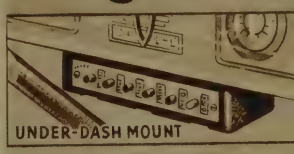
TOUCH-O-MATIC tuning is safety push-button tuning. You actually can tune five stations in five seconds—without once taking your eyes off the road. Completely eliminates the hazard of auto radio tuning while driving. Takes the guessing out of tuning. The only Auto Radio Tuning Unit that is absolutely safe.

- **Works With Any Auto Radio.** The **TOUCH-O-MATIC** Safety Tuning Unit will work with any auto radio receiver. Only two connections are required. A cable is connected from the push-button unit to the special **TOUCH-O-MATIC** tuning box which is in turn fastened to the auto radio case. The second connection is from this control box into the receiver. The **TOUCH-O-MATIC** Unit is especially ideal for use with **Knight Auto Sets** which have been designed physically for the best possible installation of this type.
- **Easy to Install.** The **TOUCH-O-MATIC** Unit is amazingly compact. Dimensions: 5 1/4"x1 1/4"x1 3/4". Housing is of sleek black bakelite, designed to harmonize perfectly with the interior of the finest cars. Can easily be mounted on the steering post or under the dash. (See illustrations.)
- **Amazing Low Price.** The **TOUCH-O-MATIC** Unit is priced within the reach of every Auto Radio owner. Comes complete with push-button unit, control box, cable and hardware.

A9799. List, $8.95.
YOUR PRICE, ONLY **$5.35**

The new **TOUCH-O-MATIC** Safety Tuning Unit—the first real Auto Radio Safety Feature, is offered at a surprisingly low price. Comes complete with bakelite push-button unit, control box, connecting cable, hardware and all necessary instructions. Easy to install. The safest auto radio tuning device ever conceived. Shpg. wt., 4 lbs.
A9799. List, $8.95.
YOUR PRICE, ONLY .....

$5.35

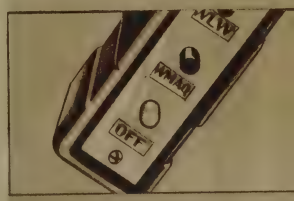


6 TUBE SET WITH TOUCH-O-MATIC TUNER

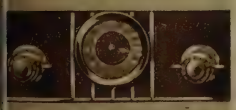
Here we offer the new **Knight 6 Tube Auto Radio** described on the opposite page, complete with the sensational new **TOUCH-O-MATIC** Safety Tuning Unit. Features: All-Electric operation; no suppressors; built-in 6" dynamic speaker; tone control; automatic volume control; pre-selector; special antenna circuit to match all types of car aerials; 3 gang condenser; 3 watts output; latest type tuning control mechanism; 6 tuned circuits; single hole mounting; latest tubes; low drain, etc. In handsome dark maroon finish. The **Knight 6 Tube Auto Radio** complete with Raytheon tubes as described, together with the **TOUCH-O-MATIC** Safety Tuning Unit (push-button device, control box, cable, hardware, etc.). Less only regular manual control panel. (See page 144 for proper control mounting kit to match your car.) Shpg. wt., 25 lbs. Code: HANDY. The **Knight 6 Tube Auto Radio** with **TOUCH-O-MATIC** Tuning is the world's safest Auto Radio.

A9781. Retail Value, $48.90.
NET PRICE, EACH, $27.95.
YOUR PRICE, LOTS OF 3, EACH .....

$26.95

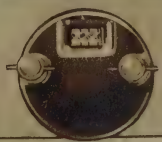


A close-up view of the push-button unit incorporated in the **TOUCH-O-MATIC** Safety Tuning device. Shows two of the station control push-buttons and the "off" button which puts the regular manual control back into operation whenever desired. Note the neat, compact design of the unit.



BUICK

STUDEBAKER



CHRYSLER

DE SOTO

Auto Radio *Super Value*

Knight SUPPRESSORLESS 7 TUBE AUTO SUPERHET with METAL TUBES

- NO SUPPRESSORS
- 5 WATTS OUTPUT
- 6½" DYNAMIC SPEAKER
- TONE CONTROL
- WITH LOCAL AND DISTANCE SENSITIVITY SWITCH
- FULL A.V.C. ACTION
- 7 TUNED CIRCUITS
- 3 GANG CONDENSER
- FITS ALL CARS

Every outstanding Auto Radio feature has been incorporated in this new **Knight 7 Tube Auto Set** to assure superb tone, dynamic power output, wide distance reach, and easy, quick installation in any car. This auto radio is designed to bring you, while driving, all of the power and tonal beauty of the finest home type radio receivers.

- **Fits All Cars.** The **Knight 7** is completely contained in a single bronze crinkle-finished metal case with attractive chrome grille. Measures only 8⅜"x7¾"x8". Has single hole mounting for quick easy installation. Just drill one hole, tighten the bolt and it's on to stay.
- **No Suppressors.** A special new multi-filter noise suppression circuit is built into the **Knight 7.** There is no need for spark plug suppressors. Wherever you drive you are assured of enjoyable, noise-free reception.
- **Metal Tubes.** Newest type tubes are used throughout the advanced circuit of the **Knight 7.** Three of these tubes are the latest metal types (6K7, 6H6, 6C5). The others are super-efficient glass types (6D6, 6A7, 6V6G, 5Z4).
- **5 Watts Output.** The **Knight 7** develops a full undistorted output of 5 watts—the result of a powerful 6V6G output stage. It is this great audio power that gives the **Knight 7** its marvelously full tone.
- **6½" Dynamic Speaker.** The self-contained heavy-duty dynamic speaker handles the tone of the **Knight 7** with rare fidelity and richness. At all frequencies, reproduction is wonderfully real and brilliant, bringing you the genuine enjoyment you get from the finest home type radios.
- **Tone Control.** Continuously variable full-range Tone Control is incorporated in the new four-in-two control head. Permits individual adjustment of tone to either bass or treble as desired. Adds enjoyment to every program.
- **Full A.V.C.** Automatic Volume Control has been brought to a high point of perfection in the **Knight 7.** There is no fading, no reduction of volume, no matter where you may be driving. You will admire the constant power, the absolute dependability of this reliable new auto radio.
- **Local and Distance Switch.** This switch is located on the new tuning head. In the "local" position it makes possible absolutely noise-free reception so desirable when driving in the city. The "distance" position is ideal for open country driving because it permits maximum sensitivity for powerful long distance reception.
- **No-Glare Dial.** The splendid new dial of the **Knight 7** is a real safety feature. It is easy to read—there is absolutely no glare and no distraction. Its soft lighting and clear calibrations make tuning while driving a pleasure.
- **Antenna Matching Circuit.** A new built-in antenna compensator matches the **Knight 7** perfectly for use with all high or low capacity auto aerials without further adjustments.
- **New Circuit Features.** The **Knight 7 Auto Radio** incorporates splendid new refinements in its RCA and Hazeltine licensed circuit. A pre-selector R.F. stage reduces noise level and provides increased selectivity and sensitivity. 7 tuned circuits are used. A special image-rejector circuit is built-in. A rubber-floated 3 gang condenser gives real stability. Range is 535 to 1550 K.C. Battery drain is exceptionally low, making operation economical.
- **A Great Car Radio Value.** The **Knight 7 Tube Auto Radio** as described is offered complete with built-in speaker, Raytheon tubes, flexible shafts, tuning mechanism and hardware. (Mounting panel and knobs shown in photograph not included. See listing at left for proper panel kit to fit your car). Shpg. wt., 24 lbs. Code: BUILD.

A9782. Retail Value, $49.95.
NET PRICE EACH, $29.95.
YOUR PRICE LOTS OF 3, EACH..... $28.45

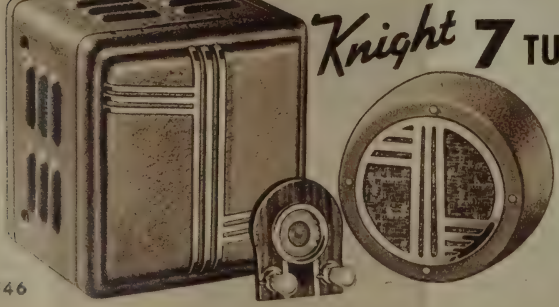
THE Knight 7 is ideal for use with the sensational new TOUCH-O-MATIC Safety Tuning Unit. See Page 145 for complete description.

RCA and Hazeltine Licensed CONTROL KITS

A9796. Type A. Attractive controls which adapt tuning mechanism of **Knight 7 Tube Auto Radio** to fasten to lower edge of dash instrument panel. Makes a very neat and convenient installation.
NET EACH..... 90c

A9797. Type B. Custom control for mounting on dash panel of cars equipped with ash tray or radio compartment. When ordering, be sure to specify make, model and year of car, indicating whether de luxe or standard. We have matching panels available for every car.
NET EACH..... $1.15

The Knight 7 Auto Radio complete with Raytheon tubes.
Net Each, $29.95.
Your Price Lots of 3, Each..... $28.45



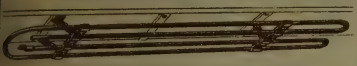
Knight 7 TUBE DeLuxe AUTO RADIO with Separate 8 in. Speaker

The **Knight 7 Tube Auto Radio** is also available in de luxe Dual Unit design. This model is exactly the same as described above except that a separate full 8" P. M. Dynamic Speaker is used. The separate chassis unit and separate speaker unit are each single-hole mounting. Both are in attractive bronze crinkle-finished metal cases with chrome trim. Chassis unit measures 8⅜x7¾x7½". Features include: Metal Tubes; No Suppressors; Tone Control; A.V.C.; 5 Watts Output; No-glare Dial; Local and Distance Switch; 3 Gang Condenser; 7 Tuned Circuits; Pre-selector, etc. The **Knight 7 De Luxe Auto Radio** comes complete with separate 8" speaker, Raytheon tubes, flexible shafts, tuning mechanism and hardware. (See listing above at left for proper panel to fit your car.) Shpg. wt., 26½ lbs. Code: DELTA.

A9783. Retail Value, $54.95.
NET EACH, $32.95.
YOUR PRICE LOTS OF 3, EACH..... $31.95

AUTO RADIO ACCESSORIES

"REDHEAD" SENIOR AUTO ANTENNA



BETTER PICKUP—LESS NOISE

An entirely new, scientifically designed running-board antenna of remarkable efficiency. Gives strong signal strength with minimum pickup of ignition noise. Is of all-metal construction with new overall rubber covering which makes it waterproof and rust-resisting.

ADJUSTABLE BRACKETS

The "Redhead" Auto Antenna has mounting brackets of malleable iron which are easily bent to conform to any particular type of installation; quickly adjustable over entire length of antenna assembly. No drilling is required as the bolts already in the running-board are used. Distance of antenna below running-board is adjustable from 2" to 4½".

EASY TO INSTALL

Installation is quickly made. Entire streamlined assembly is firmly welded and is vibration-proof. There are no springs, wire, etc., to rattle or loosen. Has set-screw connection for antenna lead-in. Completely insulated. Once installed, requires no further attention. Length, 46"; width, 9". Wt., 7 lbs.

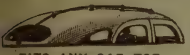
A9141. YOUR PRICE..... **$1.47**

KNIGHT DE LUXE AUTO AERIAL

An excellent auto aerial. Capacity type, coupling to ground for maximum undistorted pickup. Reduces fading to a minimum. Rust-proof and rattle-proof, with fibre insulating washers. Sturdily constructed to withstand road shock. Ideal for use with any type of auto radio. All metal—adjustable. Makes an absolutely permanent and efficient installation. Quickly and easily installed. Adjustable length to 39½". 8 inches in width. May be raised or lowered. Complete with clamps, bolts, insulators and instructions. No drilling required. Wt., 8 lbs.

A9140. YOUR PRICE **$1.10**

CARFLO AUTO AERIAL



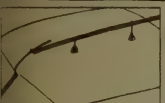
FITS ANY CAR TOP

A new development in auto antenna design. Non-directional; gives better reception, greater efficiency. Easy to install; rubber vacuum cups attach aerial securely to car. Has pure copper base and is of one-piece construction. Furnished in two types: highly-polished chromium finish, or polished copper finish which can be duco'd to match car finish.

A9548. Highly polished. Chromium finish. NET..... **$3.53**

A9549. Polished copper finish; can be duco'd. NET..... **$2.94**

WARD AUTO AERIALS



"TUR-RETTE" AERIAL

An "Over-the-top" auto antenna for all turret top cars having windshields that open. Quickly and easily installed without drilling. Permits maximum signal pickup. Antenna of highly polished chromium finished steel, mounted on molded standoff insulators. Non-directional. 5 ft. lead-in wire. Wt., 3 lbs.

A10380. NET..... **$2.50**

"STRATOSPHERE AERIAL"

Designed for any turret top car having a windshield that does not open. Provides high signal-to-noise ratio. Quickly installed; requires no drilling of top. Chrome finished steel. Wt., 3 lbs.

A10381. NET..... **$2.94**

"FISHPOLE" AERIAL

Consists of a telescoping steel rod with insulating bracket and lead-in wire. Easily attached to rear bumper bracket of any car. Isolated from motor noises; permits better signal pickup. Extends to eight feet; bends but cannot break. With 12 ft. lead-in. Wt., 2 lbs.

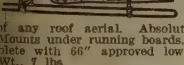
A10382. NET..... **$2.06**

FLEXROD AERIAL

Highly efficient. Fits door hinge of any car. Drawn from vanadium steel with polished chromium finish; flexible—will not break. Easy to install; will increase the signal pickup for better reception. Complete with 37" lead-in and mounting bracket. Wt., 3 lbs.

A10383. NET..... **$2.06**

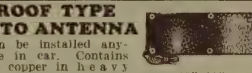
WARD LONG-RANGE TWINS



A new twin auto antenna entirely sealed in rubber. Has pick-up power equivalent to that of any roof aerial. Absolutely weather-proof. Mounts under running boards. Is supplied complete with 66" approved low-loss lead-in wire. Wt., 7 lbs.

A9544. YOUR PRICE..... **$2.35**

R.C.A. AUTO ANTENNA



A sensational auto antenna based on a fundamental principle which assures maximum results with any auto radio. A necessity on new all-steel and turret-top cars. Noise from nearby sources is eliminated by cancellation effect caused by shape of antenna. Universal mounting bracket. Wt., 4 lbs.
RCA STOCK NO. 9605.

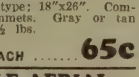
A9545. List, $2.60. NET..... **$1.55**

TOBE AUTO-POLE AERIAL

Consists of a telescoping rod, insulated mounting bracket and lead-in. Comes pre-wired and assembled and can easily and instantly be attached to the rear bumper bracket of any car. Isolated from motor noises; has more effective signal pickup. Full height is 8 ft.; telescopes to 3 ft. Less lead-in wire.

A9543. NET..... **$1.73**

ROOF TYPE AUTO ANTENNA



Can be installed anywhere in car. Contains sheet copper in heavy neat felt covering. Rigid type; 18"x26". Complete with mounting grommets. Gray or tan to match roof linings. 1½ lbs.

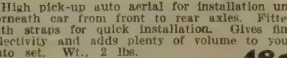
A7574. Gray.
A7571. Tan. NET, EACH **65c**

TOBE AUTO FILTERIZER KIT

Reduces Auto Radio noise; isolates aerial from noise sources by means of shielded lead-in. Kit contains: 1—Aerial Filterizer with 10 ft. Shielded Lead-in; 1—Ammeter Filterette to bypass noises from low tension wires; 1—Dome Light (or Tail Light) Filterette to keep noise off wires running near aerial.

A8410. List, $2.95. NET..... **$1.65**

AXLE TO AXLE AERIAL



High pick-up auto aerial for installation underneath car from front to rear axles. Fitted with straps for quick installation. Gives fine selectivity and adds plenty of volume to your auto set. Wt., 2 lbs.

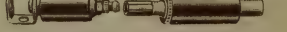
A9143. List, $1.50. NET..... **48c**

KNIGHT AUTO RADIO SUPPRESSORS

Sturdy, efficient carbon type suppressors for use on any automobile engine. Heat- and moisture-proof. Well-built to withstand constant vibration. Resistance element enclosed in polished bakelite case except Fig. "D" which illustrates new type for Ford V8. This unit replaces original distributor brush and acts as distributor suppressor.

A6990. A. Spark Plug Type.
A6991. B. Distributor Type.
A6992. C. Cable Type.
A6994. E. Short Buick Type.
SET OF 5.....$0.55
SET OF 7..... .75
SET OF 9..... .94
YOUR PRICE, EACH..... **12c**

A6995. D. Special 50,000 ohm. Ford V8 Brush Type. For 1933-1935 models.
A6999. D. Special small type, 50,000 ohm. For 1936 and 1937 Fords.
YOUR PRICE, EACH..... **12c**



LOW RESISTANCE WIRE-WOUND SUPPRESSORS

Extremely effective in eliminating motor noises. Positively will not affect operation of motor because of low resistance—30 ohms. Molded bakelite heat-resisting cases contain RF choke coils wound with enameled wire.

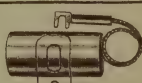
A5560. Plug type.
A5561. Distributor type.
10 FOR $2.55. EACH..... **27c**

CONDENSER & CHOKE UNIT

Consists of a .5 ampere choke and dual ½ mfd. condenser in compact metal case 2"x2"x ½". Especially suited to filtering of light cables.

A2940. EACH..... **43c**

AUTO RADIO FILTERS



SINGLE CAPACITORS

Metal-cased compact by-pass condensers for use on generators, ammeters, horns, light cables, etc., to eliminate noise.

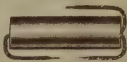
A2942. ¼ MFD. Round metal container ⅝"x2". Single lead with lug.
For horn. EACH..... **15c**

A2943. ½ MFD. Round metal container ⅞"x2". Single lead with lug.
For coil. EACH..... **19c**

A2944. 1 MFD. Round metal container 1"x2½". Single lead with lug.
For generator. EACH..... **24c**

A2945. 1 MFD. 1¼"x2½". Heavy duty for use near motor.
For generator. EACH..... **32c**

DOME LIGHT FILTER



Has ½ mfd. condenser and 5 ampere choke. Round insulated container measures ⅞"x3". With 3 insulated flexible leads.

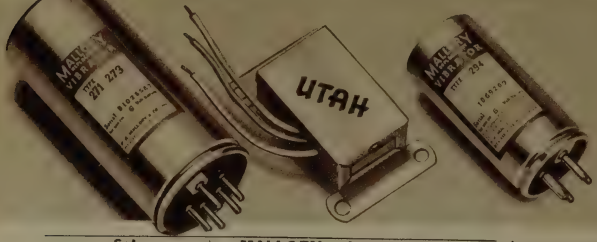
A2941.
YOUR PRICE EACH..... **32c**

FORD V8 CONDENSER

Especially designed to fit the new Ford V8 distributor head. Special metal bracket assembly of filter unit exactly fits bolts which hold the bakelite distributor head in place. Required in all Ford V8 cars equipped with Auto Radios.

A5921.
YOUR PRICE **27c**

Finest Quality REPLACEMENT VIBRATORS



A complete listing of exact duplicate vibrators. Stand equipment in many popular auto and home receiv Famous for high-quality and absolute dependability.

MALLORY VIBRATORS

All Mallory vibrators are exact duplicates of the orig units. Installation is simple and requires no changes in circuit. Well-known because of their long-life and preci type-construction. We carry a complete stock at all ti to give you the fastest possible service. When orde vibrator not listed below, state either mfrs. type num or model and make of set.

UTAH VIBRATORS

A complete line of sturdy, dependable vibrators replacement purposes. Exact duplicates electrically mechanically of the original units; require no circuit other changes for installation. We carry a complete st of Utah vibrators at all times. When ordering, state m type number, or model and make of set.

Set Name and Model	MALLORY Mfrs. No.	MALLORY Our No.	MALLORY NET	UTAH Mfrs. No.	UTAH Our No.	UTAH NET
AIRLINE						
62-166, 62-118	253	A4550	$2.65	NP42	A9052	$2.65
ARVIN						
15, 25, 35, 45 1st Ser.	296	A4551	2.65	NP6	A9050	2.65
15, 25, 35, 45 2nd Ser.	292	A4552	2.35	NL3	A9054	2.35
7, 17, 17A, 27, 37	294	A4553	2.65	NP42	A9052	2.65
ATWATER KENT						
424, 534	222	A4554	3.38	SL5	A9064	3.23
666, 776	296	A4551	2.65	NP6	A9050	2.65
816	226	A4557	3.53	SL5	A9064	3.23
AUDIOLA						
33A6	225	A4558	3.53	SL5	A9064	3.23
C6, 64, 74	294	A4553	2.65	NP42	A9052	2.65
33S6 (2 Prong)	312T	A4559	4.41	.....	.....	.....
346, 347 (6 Prong)	297	A4560	2.65	NP61	A9066	2.65
BELMONT						
566, 666, 670A	294	A4553	2.65	NP42	A9052	2.65
660 (Vibrator only)	292	A4552	2.35	NL3	A9054	2.35
580, 670	296	A4551	2.65	NP6	A9050	2.65
BOSCH						
140 (2nd & 3rd Ser.)	271	A4561	3.53	SP53	A9058	3.53
524A, 634-634A	253Y	A4562	2.65	NP42	A9052	2.65
150 (1st Series)	219	A4563	4.41	SP5H	A9059	4.41
150 (2nd Series)	271	A4561	3.53	SP53	A9058	3.53
CHEVROLET						
364441	221	A4564	2.65	NL3	A9054	2.35
600153 Series	222	A4554	3.38	SL5	A9064	3.23
601038 Series	273C	A4565	3.23	SP51	A9056	3.09
985100, 985200	294	A4553	2.65	NP42	A9052	2.65
985300	273D	A4566	3.23	SP52	A9057	3.09
CROSLEY						
98, 99, 102, 103, 5A1, 4A1, 5A3, 6B1	223	A4567	3.53	SL5	A9064	3.23
	247	A4568	3.38	SP6	A9062	3.38
DETROLA						
6A, 1100, 1100A	220B	A4555	3.82	NL3M	A9055	2.79
6M, 6R	294	A4553	2.65	NP42	A9052	2.65
1934, 1935	292	A4552	2.35	NL3	A9054	2.35
EMERSON						
965, 667	296	A4551	2.65	NP6	A9050	2.65
5A	277S	A4569	3.53	SP63	A9067	3.53
678-4	225	A4558	3.53	SL5	A9064	3.23
6A	253Y	A4562	2.65	NP42	A9052	2.65
ERLA-SENTINAL						
5500	294	A4553	2.65	NP42	A9052	2.65
600, 602, 603	292	A4552	2.35	NL3	A9054	2.35
FADA						
101, 102, 104, 104B	221	A4564	2.65	NL3	A9054	2.35
166	253Y	A4562	2.65	NP42	A9052	2.65
FORD						
MAJESTIC 40—18805	220B	A4555	3.82	NL3M	A9055	2.79
PHILCO	500P	A4577	1.76	NP41	A9051	1.76
FREED						
A7, A9	210	A4563	4.41	SP5H	A9059	4.41
G.E.						
B40, C41, B52	271*	A4561	3.53	SP53	A9058	3.53
C60	253	A4550	2.65	NP42	A9052	2.65
D50, D51, D52	287M	A4570	3.23	SP62	A9061	3.23
KNIGHT						
F9541, F9551	292	A4552	2.35	NL3	A9054	2.35
U 6	294	A4553	2.65	NP42	A9052	2.65
LEWOL						
9101-2	292	A4552	2.35	NL3	A9054	2.35
MAJESTIC						
66, 116, 116A, 118	220B	A4555	3.82	NL3M	A9055	2.79
MALLORY						
201-2-3-4	201	A4556	3.97	.....	.....	.....
10, 11, 12, 13, 14 Ser.	210	A4563	4.41	SP5H	A9059	4.41
MOTOROLA						
34, 50, 60, 90	294	A4553	2.65	NP42	A9052	2.65
61, 88	302S	A4571	4.41	.....	.....	.....
77	230	A4572	4.41	SP5H	A9059	4.41
77A, 44A, 66	270B	A4573	3.53	SP53	A9058	3.53
55	231	A4574	4.26	SLH	A9065	4.26
44	235	A4575	4.26	SLH	A9065	4.26
57, 62, 75, 79, 100, 110	253T	A4576	2.65	NP42	A9052	2.65
Dual 6, Twin 8	253	A4550	2.65	NP42	A9052	2.65

Set Name and Model	MALLORY Mfrs. No.	MALLORY Our No.	MALLORY NET	UTAH Mfrs. No.	UTAH Our No.	UTAH NET
MUSIC MASTER						
TEN-TEN	292	A4552	$2.35	NL3	A9054	$2.
PHILCO						
816	500P	A4577	1.76	NP41	A9051	1.
817, 818, 819	501P	A4578	1.76	NP44	A9053	1.
ALL OTHERS	294	A4553	2.65	NP42	A9052	2.
RCA VICTOR						
5M, 6M, 6M2	249	A4579	3.23	SP62	A9061	3.
M34, M105	271*	A4561	3.53	SP53	A9058	3.
M107	253	A4550	2.65	NP42	A9052	2.
M101, M-104, M108	287M	A4570	3.23	SP62	A9061	3.
SEARS-ROEBUCK						
7128 4 PRONG	294	A4553	2.65	NP42	A9052	2.
7117, 1859A	271	A4561	3.53	SP53	A9058	3.
SIMPLEX						
T	292	A4552	2.35	NL3	A9054	2.
SPARTON						
33, 33A	292	A4552	2.35	NL3	A9054	2.
36	222	A4554	3.38	SL5	A9064	3.
296, 333	292	A4552	2.35	NL3	A9054	2.
STEWART-WARNER						
R112, 1121, 1122, 1123	292	A4552	2.35	NL3	A9054	2.
R118, 1171, 1172, 1181	294	A4553	2.65	NP42	A9052	2.
STROMBERG-CARLSON						
33, 33A	236	A4563	4.41	SP5H	A9059	4.
UNITED MOTORS BUICK-OLDS-PONTIAC						
393884-5, 405045	273C	A4565	3.23	SP51	A9056	3.
405046 Series	273C	A4565	3.23	SP51	A9056	3.
544267 Series	273C	A4565	3.23	SP51	A9056	3.
WELLS-GARDNER						
6U, 6S	253	A4550	2.65	NP42	A9052	2.
V6Z2, Z6Z1	292	A4552	2.35	NL3	A9054	2.
062, 062A	206	A4580	3.97	.....	.....	.....
072-072A	211	A4563	4.41	SP5H	A9059	4.
WURLITZER						
A60, 460	292	A4552	2.35	NL3	A9054	2.
ZENITH						
460, 462, 650HD	292	A4552	2.35	NL3	A9054	2.
JUNIOR 7	296	A4551	2.65	NP6	A9050	2.

*Add 30c net extra for special cup adapter.

UNIVERSAL REPLACEMENT VIBRATORS

New universal vibrators for replacement purposes. Same type of high quality workmanship and materials as used in the standard lines listed on this page. Will enable you to service many types of vibrator equipped sets.

NON-SYNCHRONOUS—STANDARD 4 PRONG

A4582. MALLORY MU1.
List, $3.00.
NET $1.76
In lots of 12, Each $1.47

A9068. UTAH NP420.
List, $3.00.
NET $1.76
In Lots of 12, Each $1.47

NON-SYNCHRONOUS—SPECIAL 4 PRONG

A4584. MALLORY MU3.
List, $3.50.
NET $2.06
In Lots of 12, Each $1.71

A9070. UTAH NP 450.
List, $3.50.
NET $2.06
In Lots of 12, Each $1.71

SYNCHRONOUS—STANDARD 5 PRONG

A4585. MALLORY MU4.
List, $4.50.
NET $2.65
In Lots of 12, Each $2.20

A9071. UTAH SP500.
List, $4.50.
NET $2.65
In Lots of 12, Each $2.20

SYNCHRONOUS—STANDARD 6 PRONG

A4586. MALLORY MU6.
List, $4.50.
NET $2.65
In Lots of 12, Each $2.20

A9072. UTAH SP660.
List, $4.50.
NET $2.65
In Lots of 12, Each $2.20

REVERSIBLE SYNCHRONOUS—SPECIAL 6 PRONG

A4583. MALLORY MU2.
List, $4.50.
NET $2.65
In Lots of 12, Each $2.20

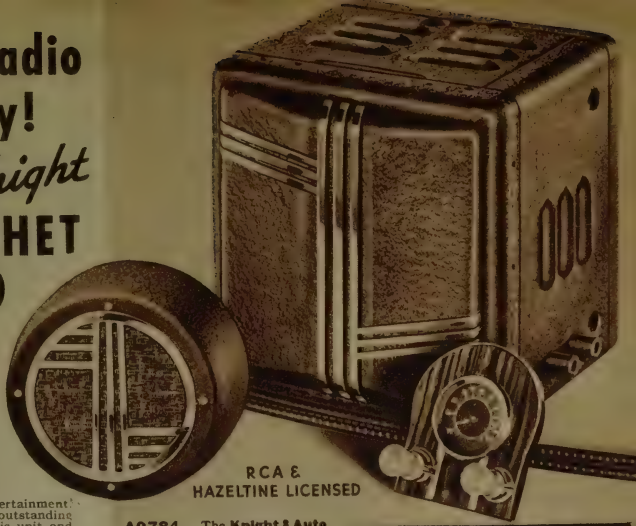
A9069. UTAH SP620.
List, $4.50.
NET $2.65
In Lots of 12, Each $2.20

The Finest Car Radio Money Can Buy!

New Suppressorless Knight

8 TUBE SUPERHET AUTO RADIO

- ALL-ELECTRIC
- 7 WATTS OUTPUT
- 8" P.M. SPEAKER
- METAL TUBES
- NO-GLARE DIAL
- NO SUPPRESSORS
- 1 HOLE MOUNT
- DUAL UNITS
- TONE CONTROL
- FULL A.V.C.
- PRE-SELECTOR
- 7 TUNED CIRCUITS
- LOW DRAIN
- FITS ALL CARS
- WITH LOCAL AND DISTANCE SWITCH



RCA & HAZELTINE LICENSED

The last word in powerful and luxurious auto radio entertainment! An entirely new de luxe dual unit Auto Superhet with outstanding features. • **Dual Unit Design.** Has separate chassis unit and separate speaker unit, both attractively housed in bronze wrinkle-finished metal cases with chromium trim—both for simple, quick single-hole mounting. Chassis unit size, only 8⅜"x7⅜"x7½". • **No Suppressors.** A special multi-filter noise suppression circuit is used—no need for spark plug suppressors! • **Metal Tubes.** The latest R.C.A. and Hazeltine licensed circuit is employed, built around the newest tubes as follows: 4 metal (6R7, 6C5, 6K7, 0Z4); 4 glass (6D6, 6A7, 2-6V6G). • **7 Watts Output.** Absolutely undistorted—the product of the mighty push-pull 6V6G output stage. • **Separate 8" Speaker.** The very latest P.M. Dynamic type—beautifully toned—large and powerful, to reproduce the tone of the new **Knight 8** clearly, distinctly, with full brilliance. • **Tone Control.** Full-range Tone Control is incorporated in the new four-in-two tuning head to permit emphasis of bass or treble as desired. • **A.V.C. Action.** There's no fading, no wavering in volume when you're driving with the new **Knight 8** in your car.

NO FINER AUTO RADIO AT ANY PRICE

For built-in dependability, convenience, economy and attractiveness, the new **Knight 8 Tube de luxe Auto Radio** has no equal. Added features are: • **Local and Distance Switch.** Located on the new tuning head, a turn of this switch affords noise-free brilliant performance in city driving. When out in the country it is adjustable so that it increases sensitivity enormously for long distance reception. • **New Circuit Refinements.** A 3 gang rubber-cushioned tuning condenser is used. One section is utilized for a pre-selector R.F. stage to reduce noise level and to increase selectivity and sensitivity. An entirely new image-rejector circuit is built-in. There are seven tuned circuits. Sensitivity is ¼ M.V. Selectivity is 10 K.C. Tuning range is 535-1550 K.C. • **No-Glare Dial.** Gives you finger-tip control and safety tuning. Fully illuminated without glare. • **Matches Any Antenna.** A wide-range antenna compensator is built-in to match any type of car antenna, whether of high or low capacity. • **Fits All Cars.** Compact in design and easy to install, the **Knight 8** will fit all cars.

• **Set Complete.** The **Knight 8 Tube de luxe Auto Radio** is offered complete with Raytheon tubes. Includes flexible shafts, tuning mechanism and hardware. (Mounting panel and knob shown in photograph not included. See listing at right for panel kit to fit your car). Shpg. wt., 26¾ lbs. Code:. CHEER.

A9784. Retail Value, $59.95.
NET PRICE, EACH, $35.95.
LOTS OF 3, EACH **$33.95**

A9784. The **Knight 8 Auto Radio** complete with tubes.
NET EACH, $35.95. YOUR PRICE, LOTS OF 3, EACH

$33.95

America's Smartest Car Set
FITS ANY AUTO

CONTROL KITS

A9796. TYPE A. Attractive control which adapts tuning mechanism of Knight 8 Tube Auto Radio to fasten to lower edge of dash instrument panel.
NET EACH **90c**

A9797. TYPE B. Custom control for mounting on dash panel of cars equipped with ash tray or radio compartment. When ordering, be sure to specify make, model and year of car, indicating whether de luxe or standard.
NET EACH **$1.15**

AUTO RADIO ACCESSORIES

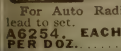
RCA-VICTOR M-34 VIBRATOR ASSEMBLY

A genuine R.C.A. Replacement part. An exact replacement vibrator, part No. 7604, for the R.C.A. M-34 auto set. Sealed; fully adjusted and ready to install. Will operate on from 4 to 8 volts input. Rubber-mounted in double aluminum can. Size 4½" high x 2½" diameter.
A7320. Part 7604. List, $6.00. **NET** **$3.60**

BASE FOR ABOVE

RCA Part No. 6577. Capacitor and base assembly for vibrator No. 7604. Two .04 mfd. condensers.
A7321. Part 6577. **YOUR PRICE** **47c**

ANTENNA CONNECTOR



For Auto Radio sets, to connect antenna lead to set.
A6254. EACH **6c**
PER DOZ. **62c**

MAJESTIC "66" AUTO RADIO REPLACEMENT

A complete vibrator replacement unit for model "66" Majestic auto radio. Contains vibrator, power transformer and 84 rectifier tube.
A9195. List, $10.00. **NET** **$5.25**

MAJESTIC VIBRATOR HEAD FOR MODEL 66-116

This unit modernizes Majestic 66, 116 Auto Radios. Also for all Ford-Majestic sets, of non plug-in type. Replaces old-type head.
A7301. Vibrator Assembly only. **NET** **$2.79**

FRONT WHEEL NOISE SUPPRESSORS

Effectively eliminates all noises caused by static pick-up of front wheels of car.
A5488. PER PAIR **28c**

MOTOR-NOISE FILTER

A new scientifically designed Auto Radio noise and spark plug suppressor eliminator. Easy to install; does not interfere with the car ignition system. Assures noise-free auto radio reception. Unit consists of a combination high-frequency filter and adjustable balancing circuit which completely eliminates use of spark plug suppressors. Filter is housed in shielded metal container fitted with mounting bracket. Installed in series with the antenna at receiver.
A5489. YOUR PRICE **$1.32**

SHIELDED AERIAL LEAD-IN

For efficient installation of auto antenna. Filler wrapped around No. 18 conductor, with close-fitting shielding overall.
A2444. ¼" DIAM.
Per ft. **5c**
100 FT. **$4.35**
A2443. ½" DIAM.
Per ft. **7c**
100 Ft. **$6.21**

Ultra Modern RADIO CONSOLES

SPLENDID NEW DESIGNS
EXQUISITE WOODS

To meet the demand for fine quality blank cabinets, **ALLIED** offers on this page a splendid trio of new consoles, distinguished for their up-to-the-minute design, their charming woods and sturdy construction. These modern consoles have been selected with a view toward harmonizing in the most tastefully furnished homes. The quality of the woods used and the craftsmanship employed in the construction of each cabinet, assure years of enjoyable service. Each cabinet is spaciously built along liberal lines, and is specifically designed and constructed to give the finest possible acoustical results. At our attractive low prices, these new consoles are sure to appeal to radio builders who are seeking fitting housing for the receivers they construct and to those who are in the market for new consoles to replace damaged or out-of-date cabinets.

IDEAL FOR ANY *Knight* CHASSIS

Each of the fine new consoles illustrated on this page will make a splendid housing for any of the many **Knight** radio chassis described in this catalog. We can supply these cabinets with drilled front panel to accommodate any **Knight** chassis you may select. There is no additional charge for drilling these cabinets when they are ordered with **Knight** chassis.

The Marlborough

$12.85

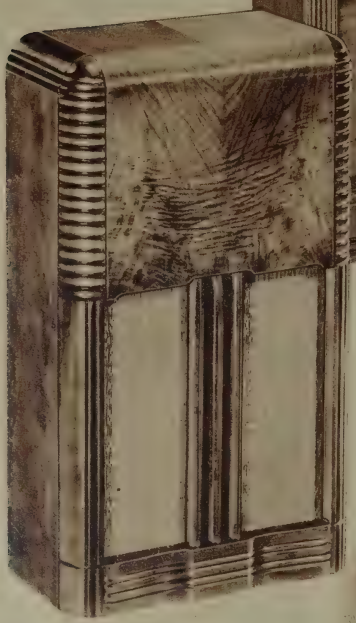
A very low-priced console of pleasing new design. Handsome matched butt walnut veneer i used for the instrument panel face. A graceful innovation is to be found in the curved beaded side pilasters which not only enhance the appearance of the cabinet but increase its sturdiness a well. The recessed grille is covered by attractiv dull gold cloth and fronted by three matched wal nut bar posts. Overall dimensions: 37″ high; 20 wide; 10″ deep. Inside dimensions: 35″ high; 18 wide; 9½″ deep. Instrument panel area: 15½ wide; 11¾″ high. Shipping weight, 34 lbs.
A9737. The Marlborough.
Retail Value $27.50.
YOUR PRICE **$12.85**

The Regent

$14.95

The Regent

The finest butt walnut hardwood veneers are incorporated beautifully in this graceful new console Fine craftsmanship is reflected throughout its construction. The handsome roll-top harmonizes splendidly with the shaped and fluted side pilasters. A beautifully figured tasteful grille cloth is used behind the shaped walnut grille opening. Overall size: 37″ high; 20 wide; 10″ deep. Inside dimensions: 35″ high; 18″ wide; 9½″ deep. Panel area: 12¼″ wide; 11¾″ high. Shpg. wt., 35 lbs
A9738. The Regent.
Retail Value, $32.50.
YOUR PRICE **$14.95**



$18.45

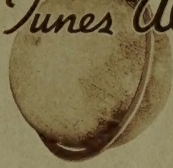
The Coronet

A luxurious and spacious new console. Will house the largest receivers. Selected butt walnut is used for front and top and is charmingly matched for rich effect. Sides are gracefully rolled and shaped and splendidly set off by a new curved and beaded pilaster design. Base is gracefully shaped and fluted. The recessed grille is covered by a dull gold cloth, fronted by three walnut posts. Overall dimensions: 39″ high; 23″ wide; 11½″ deep. Inside dimensions: 36″ high; 21″ wide; 11″ deep. Panel area: 16½″ high; 12″ wide. Shipping weight, 43 lbs.
A9739. The Coronet.
Retail Value, $39.95.
YOUR PRICE **$18.45**

1937's Radio Sensation

Knight 19 TUBE A-C SUPERHET

Tunes All The World!



America's most powerful and most beautiful radio. A magnificent new instrument into which every known circuit development, every worthwhile feature known to radio science has been incorporated. Absolutely the finest radio money can buy, built for the discriminating purchaser who wants the best. The new **Knight 19-Tube De Luxe A.C. Superhet** is the product of the finest efforts of radio engineering. Covers the whole world on three powerful bands. Tunes 16.4 to 55 meters for world-wide Short Wave broadcasts; 55 to 180 meters for Short Wave Police, Amateurs, Ships and Commercial signals; 180 to 550 meters for all Standard Broadcast and upper Police channels. A performer without a peer—distinguished for its power, its tone and its beauty. Offers boundless sensivitity, magnificent power and radio's simplest tuning arrangement. The R.F. Tuner chassis uses genuine R.C.A. metal tubes for strong signal pickup; the Audio Amplifier chassis uses glass type tubes for a mighty output of full 30 watts. 2—12" Vita-Tone speakers are provided. More than 40 distinctive features are incorporated. The console in which the **19-Tube Knight** is housed is a gorgeous, massive creation with rolled top and front of selected beautiful butterfly-grained butt walnut. Front panel slopes slightly to give convenient angle of vision to dial and controls. Upper pilasters are semi-rounded and continue in one piece from front to side; have marquetry inlay. Lower pilasters each have grille. Large center grille is rounded for better tonal depth and is covered with pleated silk grille cloth. The entire console is hand-rubbed to a high piano finish. Dimensions: 45" high, 28" wide, 15½" deep. **A9785. The Knight 19-Tube De Luxe A.C. Superhet** in massive console illustrated, complete with dual chassis, 2—12" Vita-Tone dynamic speakers and genuine R.C.A. Tubes. For operation from 110 volts, 60 cycles A.C. Shpg. wt., 160 lbs. Code: GRAIL. Retail Value, $225.00.
YOUR PRICE, ONLY

$99.50

FEATURES—FEATURES—FEATURES!

You'll find more worthwhile new features in this new **Knight 19-Tube Superhet** than in any other radio built today.

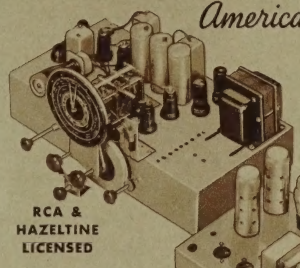
- **Three Full Wave Bands.** Complete coverage of everything that's broadcast in the world today. Gets everything with amazing ease and power.
- **Dual Dreadnaught Chassis.** Built like battleships—one for perfect R.F. tuning, the other for super-powerful audio amplification. Finest components are used throughout, workmanship is superb.
- **Two 12" Vita-Tone Speakers.** The finest available, true-toned, powerful—rendering highest fidelity tone at all volume levels.
- **11" Magna-Span Dial.** The dial with five exclusive features. "Electric Eye," Flywheel dialing, Wave Band indicator, "Tell-Time" Scale, 340° concentric calibration.
- **Latest Tubes.** Genuine R.C.A. tubes throughout—latest multi-function all-metal types in the tuner chassis, glass types in the audio amplifier. Develop full 30 watts output, amazing sensitivity, split-hair selectivity.
- **Automatic Tone Control.** Assures practically silent tuning between stations.
- **Automatic Bass Compensation.** Boosts the lowest notes to bring you the true full richness of both voice and orchestra.
- **Automatic Volume Control.** Effectively maintains uniform volume; prevents fading; guards against distortion.
- **Continuously Variable Tone Control.** Permits accentuation of bass or treble as desired. Enhances the natural tonal beauty of the receiver.
- **More Circuit Features:** New R.C.A. licensed design. 3-gang rubber-floated condenser (heavy-duty type) for increased stability and selectivity; 16 tuned circuits; R.F. Pre-amplifier stage; Pre-selector stage; 1 M.V. sensitivity; 8 K.C. selectivity; full 30 watts output. The **Knight 19-Tube De Luxe A.C. Superhet,** by virtue of brilliant engineering, superb quality of materials and precision custom manufacture, is America's first luxury radio—available now for the first time at a popular price.

AMAZING NEW CIRCUIT

The circuit used in the **Knight 19-Tube 3 Band Superhet** is a product of the long experience of some of the country's leading radio engineers. The latest type tubes are used as follows: In the R.F. tuner—6K7 as R.F. Pre-amplifier; 6A8 as Osc.; 6K7 as 1st I.F.; 6K7 as 2nd I.F.; 6H6 as Diode Det.; 6F5 as Audio Amp.; 2—5W4's as parallel full-wave rectifiers; 6K7 as Automatic Tone-Control; 6G5 as visual indicator. In the Audio Amplifier: 85 as 2nd Audio; 42 as Triode driver; 6F7 as Automatic Bass Compensation; 4—45's as Class "AB" push-pull output stage; 5V4G as power rectifier; 80 as bias rectifier. All vital circuits are thoroughly shielded. An oversize, shielded Underwriters' Approved power transformer is used. Tuner size: 19" x 9¼" x 9". Amplifier: 20" x 9" x 7½".

TWO GREAT CHASSIS—TWO GIANT SPEAKERS

America's Finest Radio



RCA & HAZELTINE LICENSED

No other radio, regardless of price, has as much to offer as the **Knight 19-Tube World-Wide Superhet.** It is presented for those discriminating radio buyers who are content with nothing less than the best

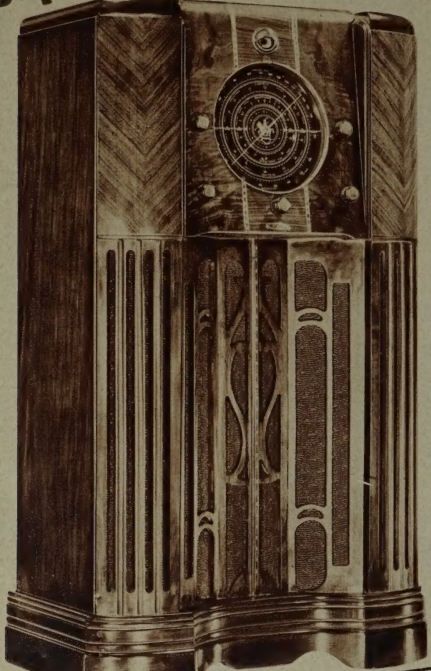
CHASSIS MODEL

The **Knight 19-Tube 3 Band Superhet** is available in chassis form, less cabinet. Includes dual dreadnaught R.F. Tuner and Audio Amplifier chassis; 2—12-inch Vita-Tone Dynamic Speakers and complete set of R.C.A. tubes. 11-inch Magna-Span dial escutcheon and knobs are included. For operation on 110 volts, 60 cycles A.C. Shpg. wt., 70 lbs. Code: DRAMA. This Knight 19-tube Superhet is the supreme development in a radio instrument capable of providing endless enjoyment.

A9786. Retail Value, $165.00.
YOUR PRICE ONLY..... **$75.00**

Knight 15 TUBE A-C SUPERHET

A Wonderful Value



The **Knight 15 Tube World-Wide All-Wave Superhet** with heavy-duty 12 inch Utah Dynamic Speaker is offered complete with Raytheon tubes in the magnificent console illustrated at left. For operation from 110 volts, 60 cycles, A.C. Code: HAVEN. Shipping weight, 85 lbs.
A9733. Retail Value, $135.00.
YOUR PRICE.....

$69.50

Here is a magnificent new radio masterpiece—the **Knight 15 Tube All-Wave A.C. Superhet**—offering more for your money than any other 15 Tube receiver made today. Powerful World-Wide reception! Stirring tonal quality! More features, more refinements, more value than you have ever seen at this price in a powerful multi-tube de luxe radio.

- **Three Full Bands**—Covers everything on the air: 17 to 52 meters for foreign and domestic short-wave stations; 52 to 172 meters for short-wave Amateur Airplane, Ship, and Police calls; and 172 to 555 meters for every standard Broadcast American and Canadian station. The **Knight 15** is super-selective and super-sensitive—it brings the whole world of radio to your home—clearly, faithfully, powerfully.
- **13½ Watts Output**—The high-fidelity, high output audio system in the **Knight 15** uses two 6F6 push-pull output tubes to develop a mighty 13½ watts output of rich, undistorted tone—reproduced with perfect clarity through the new Utah 12" heavy-duty super-dynamic speaker. Every program is flawlessly re-created; the **Knight 15** is a joy to listen to.
- **Giant Dial**—A full 8" illuminated Airplane colored dial makes the **Knight All-Wave 15** easy to tune on all short-wave and broadcast bands. Calibrations on every band are large and clear; the dial-indicator is gear-driven and has a second-hand for accurate vernier tuning action. The Electric Eye mounted directly above the dial shows you visually when your station is perfectly tuned in. Anyone can tune this receiver—with perfect ease, without confusion.
- **Dual Audio Channel**—This new development permits you to adjust the receiver so that the output matches the acoustical conditions of your home for most pleasing tonal quality. Dual audio channel is a feature never before available except in costly, custom-built receivers. The **Knight 15** reproduces broadcast studio performances right in your own living room.
- **Circuit Features**—Check these features; only the **Knight 15** has them all: New R.C.A. and Hazeltine licensed Superhet circuit; new Uni-Coil system with separate coils for each band; new sensitivity control for ideal long-range reception; new octal-base glass tubes for maximum power; new rubber-cushioned 3 gang condenser with low minimum capacity; smooth, easily-operated wave-band switch; new bass-compensated Volume Control circuit; 2 stages of I.F.; full A.V.C.; variable Tone Control, etc.
- **Magnificent Console**—The **Knight World-Wide 15** is beautifully presented in a luxurious cabinet of tasteful design. It is built of matched woods, having butt walnut face with inlay trim and V-matched walnut side pilasters. Has sloping instrument panel for greatest convenience in tuning; recessed speaker grille gives proper tonal response. Size: 40¾" high, 24½" wide, 13" deep.

RCA & HAZELTINE LICENSED

WITH ELECTRIC EYE

12" DYNAMIC SPEAKER

13½ WATTS OUTPUT

BASS COMPENSATION

DUAL AUDIO CHANNEL

8 INCH AIRPLANE DIAL

Tunes the World

3 THRILL-PACKED RADIO BANDS

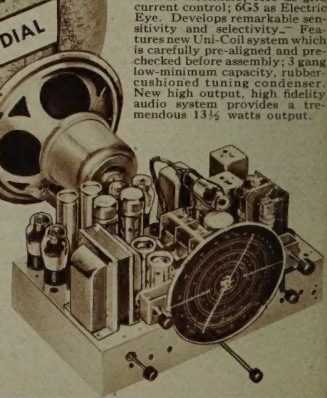
Tune around the world with the **Knight 15!** Enjoy superb reception from stations all over the globe! The tuning range covers everything on three continuous bands from 17 to 555 meters; get interesting foreign programs on the Short-Wave band from 17 to 52 meters; Ships-at-sea, Airplanes, Amateur, and Police from 52 to 172 meters; and all U.S. and Canadian broadcast stations from 172 to 555 meters. Constantly reliable reception, thrilling tone, and maximum enjoyment are assured by the perfectly-engineered circuit. Tunes smoothly and quickly with the gear-driven, 8" airplane dial with second-hand and new Electric Eye. Thrill to the rich, faithful tone produced by the new Utah 12" super-dynamic speaker plus features such as bass compensation, dual Audio Channel, variable tone control, high-fidelity audio output, etc. The **Knight 15** is a truly distinguished musical instrument offered at a price that has never before been matched in radio.

EXPORT MODELS

FOR OPERATION ON ALL VOLTAGES FROM 95 TO 260 VOLTS, 25 TO 60 CYCLES A.C., ADD $3.50.

THE KNIGHT 15 TUBE CIRCUIT

The **Knight 15** incorporates the finest 15 Tube circuit ever designed, using the latest perfected octal-base glass tubes as follows: 6K7 as R.F. on broadcast; 6A8 as Det.-Osc.; 6K7 as 1st I.F.; 6K7 as 2nd I.F.; 6H6 as 2nd Det.-AVC.; 6C5 as 1st audio (treble); 6C5 as 2nd audio (treble); 6C5 as 1st audio (bass); 6C5 as 2nd audio (bass); 2—6F6 as Push-Pull output; 2—5Y3 as Rectifiers; 6H6 as grid current control; 6G5 as Electric Eye. Develops remarkable sensitivity and selectivity.—Features new Uni-Coil system which is carefully pre-aligned and pre-checked before assembly; 3 gang low-minimum capacity, rubber-cushioned tuning condenser. New high output, high fidelity audio system provides a tremendous 13½ watts output.



CHASSIS MODEL

The **Knight 15 Tube World-Wide Superhet** is offered also in deluxe chassis form. Incorporates the powerful new circuit described above with 12" Utah electro-dynamic speaker and 15 Raytheon octal-base glass tubes. Measures 17½"x12"x 11". Features expert workmanship and quality materials throughout; designed and built to set new standards for master radio construction. Supplied complete with speaker, tubes, knobs and escutcheon. For operation on 110 Volts, 60 cycles A.C. Shipping weight: 35 lbs. Code: BADGE. A value only **ALLIED** can give you.
A9734. Retail Value, $102.50.
YOUR PRICE.....

$49.50

Knight 11 TUBE *Masterbilt*

A. C. SUPERHET 3 FULL BANDS

A9788. The Knight 11 Tube All-Wave A. C. Superhet, complete in console illustrated, with R. C. A. tubes. For operation on 110 volts 60 cycles A. C. Code: CHEER. Shipping weight, 75 lbs. The greatest multi-tube radio value offered in America today! Retail Value, $89.50.

$43.50

NET PRICE EACH, $46.45.
PRICE IN LOTS OF 3, EACH

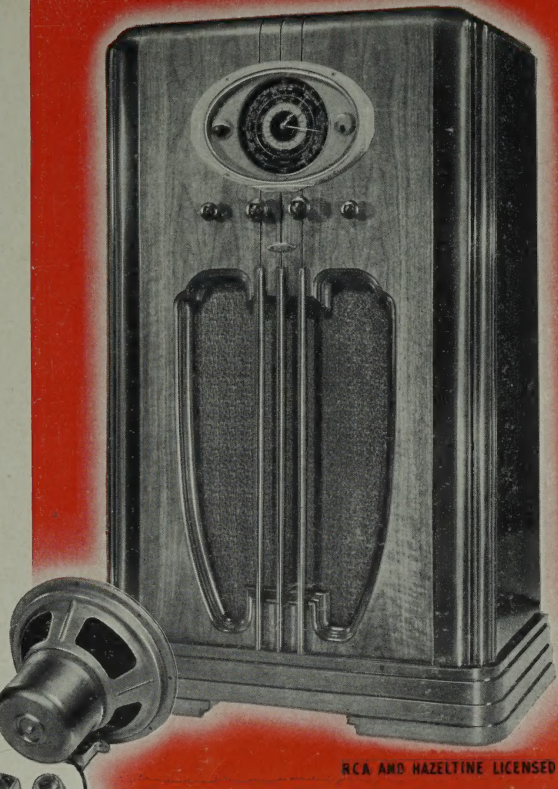
• **TUNES THE WORLD.** The Knight 11 is packed with new features and value—offered by ALLIED as an unusually low-priced "Leader." This powerful metal tube Superhet tunes three full bands smoothly, effortlessly and with high fidelity tonal reproduction. Covers 16.4 to 55 meters for world-wide Short Wave reception; 55 to 180 meters for Short Wave, Amateur, Police, Aircraft and Ship signals; and 180 to 550 meters for upper Police channels and coast-to-coast American and Canadian standard Broadcast programs.

• **NEW 11" MAGNA-SPAN DIAL.** Radio's most practical dial—with every new feature for easy and accurate tuning—Electric Eye—you "see" when your station is tuned perfectly; Visual Wave Band Indicator—you know which band is in use; Flywheel Tuning—eliminates slow laborious tuning; Minute-Hand Band-spread—gives you vernier selectivity; Tell-Time Scale—makes it simple to return to popular stations.

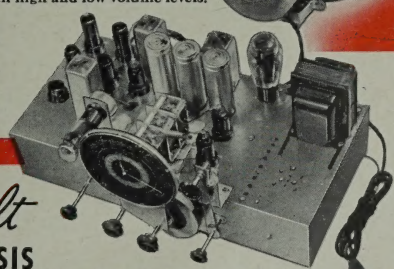
• **METAL TUBE CIRCUIT.** Powerful, super-efficient—R. C. A. and Hazeltine licensed. Every tube works; every tube contributes to develop the amazing power, keen selectivity and high fidelity tone which are consistently evident in Knight 11 performance.

• **7 WATTS OUTPUT.** Two of the new metal type 6F6 tubes are used in the mighty power output stage of the Knight 11, developing a pure, undistorted output of seven watts, assuring plenty of reserve power and the finest tonal quality at both high and low volume levels.

• **FINE TONE.** Superb tone quality—true musical beauty is an outstanding feature of Knight 11 performance. Every subtle overtone, every note is fully reproduced with startling life-like fidelity by the giant size 12 inch Electro-dynamic speaker.



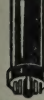
RCA AND HAZELTINE LICENSED



Masterbilt RADIO CHASSIS

The magnificent Knight 11 Tube A. C. Superhet is also available in de luxe chassis form as illustrated above. A splendid replacement for even the finest cabinets, this new chassis is a masterpiece of quality radio building. It is constructed of the finest materials exclusively, and is built to exacting standards of performance. The chassis measures 19" long, 9" deep and 9" high. It is entirely rubber-floated for stable operation. Genuine R. C. A. tubes are used throughout. A 12" giant Vita-Tone Dynamic Speaker is included together with the 11" Magna-Span dial and escutcheon. Other features are A. V. C., Tone Control, 3 gang rubber-floated condenser, R. F. Pre-Amplifier, 1 Mv. sensitivity, 8 KC selectivity, etc. There is no finer eleven tube radio chassis built today.

A9789. The Knight 11 Tube A. C. Superhet chassis with 12" Speaker and R. C. A. tubes. For operation on 110 volts, 60 cycles, A. C. Shipping weight, 38 lbs. Code: GAIN.
Retail Value, $72.50.
NET PRICE EACH, $35.95
YOUR PRICE IN LOTS OF 3, EACH..... **$33.95**



METAL TUBES

11" MAGNA-SPAN MAGIC DIAL

GIANT 12" SPEAKER

WORLD-WIDE RANGE

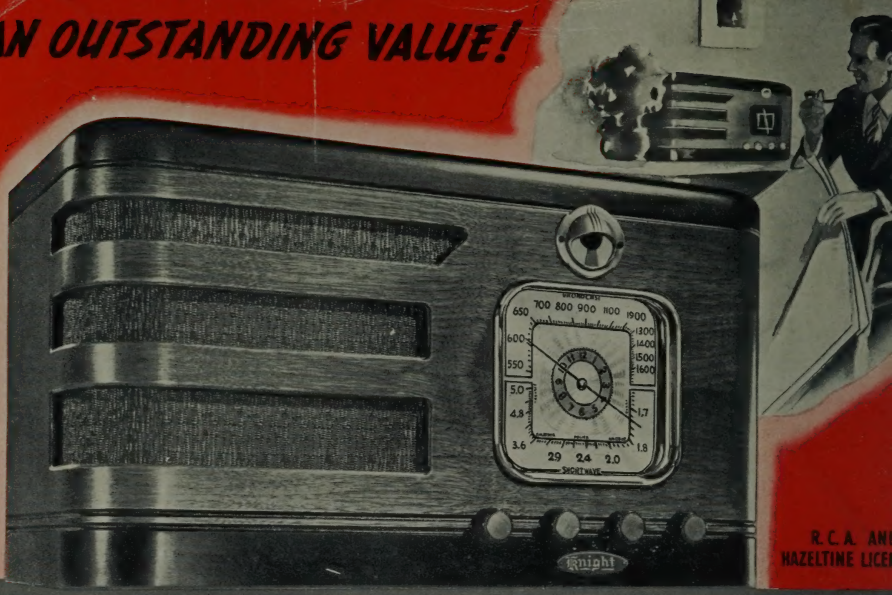
The Knight 11 Tube 3 Band A. C. Superhet with 11 inch Magna-Span Dial and Metal Tubes is a wonderful combination of value, beauty and powerful performance. Packed with features that give it complete mastery of everything on the air. Tunes 16.4 to 55 meters and 55 to 180 meters for all Foreign, Amateur, Airplane, Police and Ship broadcasts. Tunes powerful standard American and Canadian Broadcast between 180 and 550 meters. The Knight 11 is dependable and consistent because it embodies radio's finest tuning system, highest quality components and skilled workmanship. This built-in quality is matched by its superb console with beautiful new rolled-top design of one piece vertically-striped walnut. Has attractively rounded and shaped pilasters and beautiful Roman-lyre design grille. Style finds a new rich expression in this splendid console. Dimensions: 39½" high, 23¼" wide, 13¼" deep. Never before in radio history has an 11 tube receiver of such superior quality been sold at so low a price.

POWERFUL METAL TUBE CIRCUIT

The R. C. A. and Hazeltine licensed circuit of the new Knight 11 A. C. Superhet is expertly engineered to develop tremendous power, hairline selectivity, exceptional sensitivity and rich, luxurious tone. The latest genuine R. C. A. metal type tubes are utilized to create these valuable characteristics in the most efficient manner: 6K7 as R. F. Pre-Amp.; 6A8 as 1st Det.-Osc.; 6K7 as 1st I. F.; 6K7 as 2nd I. F.; 6H6 as Diode Det. and A. V. C.; 6C5 as phase inverter; 6C5 as 1st Audio; 2-6F6 as powerful push-pull power output stage; 5Z3 as rectifier. A 6G5 tube is used as the "Electric Eye." Full seven watts output is attained by the mighty 6F6 metal power output stage. This extraordinary power is handled ably and smoothly by the giant 12" auditorium dynamic speaker which reproduces at all times—at any tone level—gorgeously rich, superlative tone quality. Metal tubes increase the sensitivity, especially on the Short Wave bands; the heavy-duty 3 gang condenser, R. F. pre-amplifier on broadcast, and 16 tuned circuits assure powerful, dependable performance on all bands. Full A. V. C. means freedom from distortion and noise; Personal Tone Control permits the selection of either treble or bass. These practical valuable features double radio enjoyment!

The Knight 11 can be had in both console and chassis models for operation on all voltages from 110 to 250 volts, 40 to 60 cycles, A.C., at $3.00 additional.

AN OUTSTANDING VALUE!



R.C.A. AN
HAZELTINE LICE

Knight 6 TUBE AC SUPERHET

A9750. The Knight Dual Wave 6 — an Outstanding Value — complete with R. C. A. tubes.

Retail Value, $35.00.

NET PRICE EACH, $16.45.

YOUR PRICE IN LOTS OF 3, EACH

$15.65

WITH ELECTRIC EYE

2 THRILLING BANDS

3 BAND UTILITY

WITH TONE CONTROL

FULL-ACTION A.V.C.

LARGE 4½ INCH DIAL

6" DYNAMIC SPEAKER

Here's the year's biggest Radio Value—an entirely new Dual Wave Knight 6 Tube A. C. Superhet that's months ahead of the field! Has exclusive, practical new features, big power and wide reach, splendid tone and fine looks. For built-in quality and reliable performance, the new Knight 6 beats sets that are selling for twice as much today. Here's proof again—that only ALLIED can give you Radio's Outstanding Value!

• **TUNES 2 FULL BANDS.** The Knight 6 has magnificent coverage. It tunes from 47 to 130 Meters to bring in Short Wave police, aviation and amateur 'phone, as well as thrilling foreign reception on the popular 49 meter foreign Short Wave channel. The second band covers from 174 to 556 Meters and tunes the upper police channel and all American and Canadian standard Broadcast stations. These two bands actually give you the advantage of three band reception.

• **ELECTRIC EYE.** The unerring Electric Eye, generally found only in the highest-priced sets, is incorporated in the new Knight 6. It provides the silent way to perfect tuning and better tone. You just watch the shadow in the glowing eye; when it is narrowest you are tuned in perfectly.

• **LARGE NEW DIAL.** An exclusive easy-to-tune Knight advancement. Has a handsome gold face which is fully illuminated from the sides. All calibrations are in large clear characters. Two easy-to-read scales are indicated, the upper calibrated in kilocycles for standard Broadcast tuning, the lower marked in megacycles for Short Wave logging. All important Short Wave bands are clearly designated. You will approve of this practical new radio dial.

• **TONE CONTROL.** Here is a big extra feature never before incorporated in a 6 tube set at so low a price. Permits emphasis of treble or bass response to suit personal tastes. Adds to the full clear beauty of Knight 6 tone.

• **6 INCH DYNAMIC SPEAKER.** A full-size 6 inch electrodynamic speaker is used in the Knight 6. It faithfully reproduces the fine tonal output of the circuit with flawless fidelity at any volume level. Power output is 4 watts! You will like the rich and stirring realism of tone created by the Knight 6.

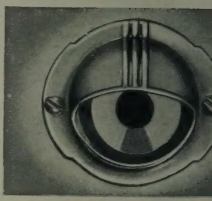
• **LATEST CIRCUIT.** The R. C. A. and Hazeltine licensed circuit of the new Knight 6 assures you of the latest developments from these great laboratories. Latest type tubes are used as follows: 6A7 as Mod.-Osc.; 6D6 as I. F. Amp.; 75 as triple-purpose Diode Det.—A. V. C.—1st Audio; 41 as Pentode output; 80 as rectifier; 6G5 as Electric Eye. Other advantages include rubber-floated tuning condenser for stability, automatic volume control to maintain uniform volume, large chassis and quality parts with ample safety factors.

• **BEAUTIFUL CABINET.** The Knight 6 is fittingly offered in the latest laydown cabinet designed with gracefully rolled ends. Has front face of beautiful walnut finished in pleasing two-tone effect. Measures 17½ x 8 x 9½ inches.

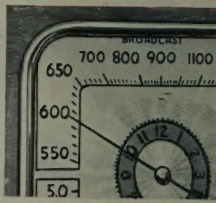
• **A $35 VALUE.** The Knight Dual Wave 6 is offered in the beautiful cabinet illustrated above, complete with R. C. A. tubes. For operation from 110 volts, 60 cycles A. C. Code: GLORY. Shipping weight, 18½ lbs.

A9750. Retail Value, $35.00.
NET PRICE EACH, $16.45.
YOUR PRICE LOTS OF 3, EACH..... **$15.65**

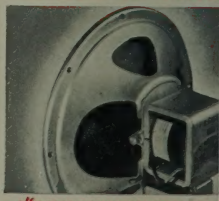
For operation on all voltages from 95 to 260 volts, 25 to 60 cycles A.C., add $2.25.



ELECTRIC EYE



LARGE 4½" DIAL



6" DYNAMIC SPEAKER